

COLLEGE OF ARCHITECTURE, ART, AND PLANNING

ADMINISTRATION

William G. McMinn, dean
 Stanley J. Bowman, associate dean
 Laurie Roberts, director of public affairs
 Cynthia K. Prescott, director of administrative operations
 Ray Dalton, director of minority educational affairs
 Donna L. Kuhar, registrar
 Elizabeth A. Cutter, director of admissions
 Margaret Webster, curator of visual resources facility
 Gail W. Miller, director of career office

FACULTY ADVISERS

Architecture students are assigned faculty advisers for their first year. Upperclass students have one assigned adviser but are encouraged to seek assistance and advice from the most appropriate faculty member or college officer.

Freshmen in the fine arts department are assigned faculty advisers for the first year. Students may then choose advisers in their major area of concentration.

Undergraduate students in the Program of Urban and Regional Studies are assigned faculty advisers.

All students in the college are invited to share their concerns and seek advice from the volunteer student advisers at anytime.

Specific inquiries regarding rules, procedures, or deadlines should be addressed to:

Kent L. Hubbell, chair, Department of Architecture

Richard S. Booth, chair, Department of City and Regional Planning

Victor Kord, chair, Department of Art.

DEGREE PROGRAMS

	<i>Degree</i>
Architecture	B.Arch.
	B.F.A.
Fine Arts	B.F.A.
History of Architecture and Urbanism	B.S.
Urban and Regional Studies	B.S.

The college offers programs leading to the bachelor's degree—the five-year program in architecture leads to the Bachelor of Architecture; four-year programs in art and architecture lead to the Bachelor of Fine Arts. In addition, four-year programs with a concentration in either urban and regional studies or history of architecture lead to the Bachelor of Science.

Graduate-level programs are offered in art, architectural design and urban design, architectural sciences, history of architecture and urbanism, historic preservation planning, city and regional planning, regional science, and landscape architecture.

Students in each of these programs work in physical proximity to one another and thus gain a broader understanding of their own special area of interest through contact with the students and faculty in other disciplines.

Early in its development the college set a limit on the number of students it would enroll and devised a selective method of admission. There are now more than 650 students and a full-time teaching staff of over fifty-five, supplemented by visiting professors and critics, part-time lecturers, and assistants. Teachers and students mix freely, and much instruction and criticism is on an individual basis.

The college's courses are integral parts of the professional curricula. Fundamental subjects are taught by faculty members whose experience provides them with professional points of view. The concentration of professional courses within the college is balanced by the breadth of view gained from courses and informal learning in the rest of the university. The college believes that this breadth is an essential element of professional education. This conviction is evident in the form of the curriculum, the methods of teaching, and the extracurricular life of teachers and students.

FACILITIES

The college occupies Sibley Hall, Olive Tjaden Hall, Rand Hall, and the Foundry. In Sibley are the facilities for architecture, and city and regional planning, as well as administrative offices, the Visual Resources Facility, and the Fine Arts Library. The Department of Art is housed in Olive Tjaden Hall. Sculpture and shop facilities are in the Foundry. The Green Dragon Cafe, a student lounge, is located in the basement of Sibley Dome. The college has three darkrooms that are available for general use by students in the college and serve as laboratories for the photography courses. A darkroom fee must be paid by each user. Information about darkroom rules and regulations, hours, and equipment is available at the darkroom circulation desk.

Through the generosity of the late Lillian P. Heller, the college also owns the Miller-Heller House, home of William H. Miller, the first student to enroll for the study of architecture at Cornell and later a practicing architect in Ithaca. This building is used to house visiting teachers and guests of the college and for occasional receptions and social events.

Libraries

The Fine Arts Library, in Sibley Hall, serves the College of Architecture, Art, and Planning through its collections on architecture, fine

arts, city and regional planning and landscape architecture. The library, with more than 145,000 books, is capable of supporting undergraduate, graduate, and research programs. Some 1,900 serials are currently received and maintained.

The Visual Resources Facility, made possible through gifts from George and Adelaide Knight, in Sibley Hall contains the F. M. Wells Memorial Slide Collection, which consists of a large and growing collection of slides of architecture, architectural history, and art. The collection now includes approximately 400,000 slides.

The facilities of the libraries of other schools and departments on campus and the John M. Olin Library, designed primarily as a research library for graduate students, are also available.

Museums and Galleries

The Herbert F. Johnson Museum of Art was formally opened in May 1973. Although many of its exhibitions and activities relate directly to academic programs of the university, the museum has no administrative affiliation with any department. In this way, its programs freely cross academic boundaries, stimulating interchange among disciplines. With a strong and varied collection and a continuous series of high-quality exhibitions, it fulfills its mission as a center for the visual arts at Cornell. Art galleries are also maintained in Willard Straight Hall, where loan exhibitions of paintings and graphic work by contemporary artists are held. Throughout the year, works of students, faculty, and staff in the College of Architecture, Art, and Planning and of guest artists may be viewed in the John Hartell Gallery in Sibley Hall and in the Olive Tjaden Gallery in Olive Tjaden Hall.

Rome Program

The College of Architecture, Art, and Planning's Rome Program was founded in the fall of 1986 to provide instruction in Italy for students seeking excellence in art, architecture, and other disciplines. The program offers an educational experience that draws upon the rich past of Rome, its resources in museums, its art and architecture, and its wide variety of cultural offerings. The school is located in the famous Palazzo Massimo in the center of the historical city next to such well-known Roman sights as Piazza Navona, the Pantheon, and Rome's famous outdoor market at the Campo dei Fiori.

The program in Rome offers components for students majoring in liberal arts, architecture, fine arts, and planning. Full course loads are available to all students in a curriculum that stresses the convergence of artistic, cultural, and architectural ideas vital to an understanding of the city. Students are responsible for planning course schedules that ensure their particular requirements can be met, since course offerings in Rome are limited.

COLLEGE ACADEMIC POLICIES

Ownership of Student Work

All drawings, models, paintings, graphic art, and sculpture done in the studios and drafting rooms as a part of the instructional program are the property of the college until they have been graded and released by the instructor. Certain works may be selected by the college for retention for academic purposes.

Exhibitions of Student Work

Exhibitions of student work are held each semester as part of the yearly schedule of the Olive Tjaden Hall gallery and the John Hartell Gallery. These galleries display work from a specific course or exhibit examples of recent work by individual faculty, students, and visitors.

Scholastic Standards

Term by term, a candidate for an undergraduate degree in the college is required to pass all courses in which the student is registered and have a weighted average for the term of not less than C (2.0). The record of each student who falls below the standard will be reviewed by the Student Records Committee for appropriate action, as described below:

- 1) **Warning** means that the student's performance is not up to expectations. Unless improvement is shown in the subsequent term, the student may be placed on final warning or required to take a leave of absence from the college.
- 2) **Final Warning** indicates that the student's record is unsatisfactory. Unless considerable improvement is shown in the subsequent term, the student shall be required to take a leave of absence from the college.
- 3) **Required leave of absence: Academic Deficiency.** The student is dismissed from the college and may not continue studies in the college. A student who has been placed on a required leave of absence may apply for readmission after an absence of at least two semesters. Application for readmission is made by letter, addressed to the department chair. The student must submit evidence that his or her time has been well used, and, if employed, must submit a letter from an immediate superior. If a student chooses to register for courses, either extramurally at Cornell or at another institution, he or she should be advised that credit for these courses will not apply toward the degree but will appear on the student's transcript. The grades received for any courses taken while on a required leave of absence will not be counted into the grade point average. Readmission to the college is at the discretion of the Admissions Committee. Application for spring-term readmission must be made by November 15, and application for fall-term readmission must be made by April 15. Refer to the *Architecture, Art & Planning Handbook* (Whitebook) for further information regarding required leave of absence.
- 4) **Required withdrawal: May Not Reregister.** College of Architecture, Art, and Planning. The student is dismissed from the college and is permanently prohibited from continuing studies in it. This dismissal does not preclude the possibility of

applying for admission to another division of the university.

The above actions are not necessarily sequential. A student who has received a warning may be placed on a required leave of absence for academic deficiency at the end of the next term if performance during that time is deemed to be grossly deficient.

A cumulative average of at least C- (1.7) is required for graduation.

ARCHITECTURE

Kent Hubbell, chair; M. Cruvellier, W. Goehner, D. P. Greenberg, R. Hall, G. Hascup, L. F. Hodgden, M. Jarzombek, G. Jullian de la Fuente, A. Kira, B. G. MacDougall, A. B. Mackenzie, W. G. McMinn, V. Meyers, J. C. Miller, L. Mirin, V. Mulcahy, J. Ochshorn, C. F. Otto, A. Ovaska, C. W. Pearman, A. Pendleton, H. W. Richardson, M. L. Schack, J. P. Shaw, A. Simitch, S. Thiratrakoolchai, V. K. Warke, J. Wells, M. Woods, J. Zissovici

Professional Degree Program

The first professional degree in architecture is the Bachelor of Architecture. This degree counts toward the professional registration requirements established by the various states, National Architectural Accrediting Board, and the National Council of Architectural Registration Boards. The professional program is normally five years in length and is designed particularly for people who, before they apply, have established their interest and motivation to enter the field. It therefore incorporates both a general and professional educational base.

The program is oriented toward developing the student's ability to deal creatively with architectural problems on analytical, conceptual, and developmental levels. The sequence courses in design, consisting of studio work augmented by lectures and seminars dealing with theory and method, are the core of the program. Sequences of studies in the history of architecture and cities, culture and society, visual studies, environmental science, structures, and building technology provide a base for the work in design.

In the first three years the student has the opportunity to establish a foundation in the humanities and sciences through electives. During the fourth and fifth years this base may expand through detailed further studies in these areas. Within the professional program a basis for understanding architecture in its contemporary and historical cultural contexts is established.

The structure of the program incorporates considerable flexibility for the individual student to pursue his or her particular interest in the fourth and fifth years. By carefully planning options and electives in the fifth year, it is possible for a qualified student to apply the last year's work for the Bachelor of Architecture degree to one of the graduate programs offered in the department. Some students are then able to complete the requirements for the master's degree in one additional year.

Rome Program

The program offers the opportunity for students from Cornell and other universities to

spend one or two terms of study in Rome. This option is open to fourth- and fifth-year Cornell architecture students; outstanding third-year students are admitted by petition and a review of their design record. Courses offered by this department include design, thesis, thesis introduction, history, theory, architectural science, and design communication. In addition, courses are offered by other departments in Italian language, Italian culture, and history of art. The program provides a unique urban and architectural experience drawing from the rich past of the city for sources of instruction and inspiration.

Overlap Program

For qualified students the department offers an option that combines the fifth year of the undergraduate program with the first year of the Master of Architecture program. In the fall of the fourth undergraduate year interested students petition the department to substitute Arch 601-602 or 603-604 for Arch 501-502. At the same time, they complete graduate school applications and submit them with fee and portfolio to the graduate field secretary for architecture. Students accepted into the program may not normally begin until the fall of their fifth year and, once enrolled, may not transfer back into the 501-502 sequence.

Following admission into the Overlap Program, students may petition to apply toward the requirements of the master's degree a maximum of 30 credits, including Arch 601-602 or 603-604 and other advanced courses taken in excess of distribution requirements for the Bachelor of Architecture degree.

Curriculum**First Year**

<i>Fall Term</i>	<i>Credits</i>
101 Design I	6
181 History of Architecture I	3
151 Drawing I	2
Math 111 Calculus or Math 106 or out-of-college elective	3-4
Out-of-college elective	3
	17-18

Spring Term

102 Design II	6
182 History of Architecture II	3
152 Drawing II	2
Math 111 or out-of-college elective	3-4
Out-of-college elective (freshman writing seminar suggested)	3
	17-18

Second Year

<i>Fall Term</i>	<i>Credits</i>
201 Design III	6
263 Structural Concepts	4
231 Architectural Analysis I	2
261 Site Planning	3
Out-of-college elective	3
	18

Spring Term

202 Design IV	6
232 Architectural Analysis II	2
262 Building Technology, Materials, and Methods	3
264 Structural Elements	3
College elective	3
	<hr/> 17

Third Year

Fall Term

301 Design V	6
361 Environmental Controls I—Lighting and Acoustics	3
363 Structural Systems	3
Departmental elective	3
Out-of-college elective	3
	<hr/> 18

Spring Term

302 Design VI	6
342 Architecture as a Cultural System	3
362 Environmental Controls II—Mechanical and Passive Solar Systems	3
Departmental elective	3
College or out-of-college elective	3
	<hr/> 18

Fourth Year

Fall Term

401 Design VII	6
411 or 412 Professional Practice or Seminar	3
Departmental elective	3
College elective	3
Out-of-college elective	3
	<hr/> 18

Spring Term

402 Design VIII	6
Departmental elective	3
Departmental elective	3
College or out-of-college elective	3
Out-of-college elective	3
	<hr/> 18

Fifth Year

Fall Term

501 Design IX or 601 or 603 Overlap Program	6
Departmental elective	3
College or out-of-college elective	3
Out-of-college elective	3
Out-of-college elective	3
	<hr/> 18

Spring Term

502 Design X or 602 or 604 Overlap Program	8
Departmental elective	3
College or out-of-college elective	3
College or out-of-college elective	3
	<hr/> 17

Required Departmental Courses

<i>Terms</i>	<i>Course Subject</i>	<i>Numbers</i>	<i>Credits</i>
10	design	101–502	62
1	mathematics	Math 111,	
	Math 106, or		
	approved		3–4
	equivalent		
3	structures	263, 264, 363	10
4	technology	261, 262,	
	361, 362	12	
2	architectural		
	theory	231, 232	4
2	history of		
	architecture	181, 182	6
1	architecture,		
	culture and		
	society	342	3
1	professional		
	practice or		
	seminar	411 or 412	3
2	drawing	151, 152	4
			<hr/> 107–108

Electives

Departmental

<i>Terms</i>		<i>Credits</i>
3	history of architecture: 300-level	9
1	visual studies or computer graphics	3
2	architectural theory or non-sequence design	6
1	architectural structures, construction, and technology	3

College

<i>Terms</i>	<i>Credits</i>
2	art: any courses

Out-of-College

<i>Terms</i>		<i>Credits</i>
1	computer programming or applications	3
1	freshman seminar	3
1	mathematics, physics, or biological sciences	3
1	humanities	3
		<hr/> 12

Free

Of the electives, 15 credits are to be taken outside the College of Architecture, Art, and Planning, and 15 credits may be taken either in or outside the college.

Total credits

176

Transfer Students

Although the program leading to the Bachelor of Architecture is specifically directed to those who are strongly motivated to begin professional study when entering college, it is sufficiently flexible to allow transfers for students who have not made this decision until after they have been in another program for one or two years. Individuals who have already completed a nonprofessional undergraduate degree must also apply to transfer to the Bachelor of Architecture degree

program, since the graduate program in architecture requires the Bachelor of Architecture degree or its equivalent for entrance.

Transfer students are responsible for completing that portion of the curriculum that has not been covered by equivalent work. Applicants who have had no previous work in architectural design must complete the ten-term design sequence. Since this sequence may be accelerated by attending summer terms, seven or eight regular terms and two or three summer terms are typically required.

For those who would benefit from an opportunity to explore the field of architecture before deciding on a commitment to professional education, the department offers an introductory summer program that includes an introductory studio in architectural design, lectures, and other experiences designed to acquaint the participants with opportunities, issues, and methods in the field of architecture.

Admission is offered to a limited number of transfer applicants who have completed a portion of their architecture studies in other schools. Each applicant's case is considered individually. Transfer students must complete a minimum of 70 credits and four terms in residence, taking 35 of the 70 credits (including four terms of design) in the Department of Architecture. Placement in the design sequence is based on a review of a representative portfolio of previous work.

Alternative Programs

Bachelor of Fine Arts

After completing the first four years of requirements, the student may choose to receive the degree of Bachelor of Fine Arts (B.F.A.) in architecture, which is not a professional degree.

Bachelor of Science in History of Architecture

The history of architecture major leads to a Bachelor of Science degree, conferred by the College of Architecture, Art, and Planning. The major is intended for transfer students from other programs at Cornell and from colleges and universities outside Cornell. Students in the Department of Architecture and the College of Arts and Sciences may take the major as part of a dual-degree program. The course of study in this major, available to students from a variety of academic backgrounds, offers the opportunity for a vigorous exploration of architecture and its history.

Admission requirements. Two years of undergraduate study; Arch 181 and 182, or the equivalent; and one 6-credit studio in architecture (or Arch 103, which is available during the fall semester for students with no previous studio work) are required. Students transferring from a B.Arch. program must be in good standing in their design sequence.

Procedure. Students from Cornell may transfer to the program at the beginning of the fall term of their third or fourth year of study. They submit a short application as prospective internal transfer students. It is required that, before applying, all prospective internal transfer students meet with a history of architecture faculty member to discuss procedural matters and program content.

Students who wish to transfer to the program from outside Cornell must apply to the

Department of Architecture by March 15. Applications may be considered after this date but are given lower priority. Applications for both internal and external transfer students are available from Elizabeth Cutter, Admissions Office, College of Architecture, Art, and Planning, Cornell University, 135 East Sibley Hall, Ithaca, New York 14853-6701.

Curriculum. A student entering the program is assigned an adviser from the history of architecture faculty in the Department of Architecture. Adviser and student together prepare an appropriate two-year course of study according to the following guidelines:

- 1) 24 credits of 300-level courses in architectural history: Arch 380 through Arch 399
- 2) 12 credits in 600-level architectural history seminars: Arch 681 through Arch 699; or 8 credits in a 600-level seminar plus Arch 499, offered for honors candidates only
- 3) One 300-, 400-, or 600-level course in architectural theory
- 4) 24 credits in electives selected in consultation with the student's adviser
- 5) Language requirement, to be met in the manner specified for students enrolled in the College of Arts and Sciences

Honors program. Students will graduate with honors if, during their two years of study in the program, they have a cumulative average of B or better in all courses, have no grade lower than A- in all history of architecture courses taken at the 300 level, and have completed an honors thesis (Arch 499) deemed to be of distinguished quality by the history of architecture faculty.

Dual Degree Options

Students can earn both the B.S. and B.Arch. degrees either simultaneously or sequentially. Students who have transferred into the B.Arch. program at Cornell may find this to be a special opportunity for an enlarged and enriched program of study. Ordinarily this option requires five years of study and assumes the satisfactory fulfillment of requirements in both the B.S. and B.Arch. programs.

Students currently enrolled in the College of Arts and Sciences at Cornell can earn a B.A. in an arts college major and a B.S. in the history of architecture in five years. In this option, students complete a minimum of 150 credits, which includes the B.S. prerequisites and curriculum requirements and 100 credits of the usual distribution and major requirements in the College of Arts and Sciences. Further information about this option is available at the Admissions Office, 135 East Sibley Hall, and at the Academic Advising Center of the College of Arts and Sciences, 55 Goldwin Smith Hall.

Students may also elect to continue toward a Master of Arts degree in the history of architecture. The M.A. ordinarily requires a minimum of two years of graduate work beyond the bachelor's degree; with this special sequential degree arrangement that time is shortened to one year.

Summer Term in Architecture

The summer term offers students the opportunity of a concentrated period of design work. Design is offered at both

undergraduate and graduate levels; the term is six to eight weeks in duration.

Undergraduate design sequence courses, including thesis, are offered at first- through fifth-year levels in Ithaca. Normally there is also a design program abroad for third-, fourth-, and fifth-year students.

Students from schools of architecture other than Cornell are welcome to apply to the college for admission to any summer programs.

At the graduate level the summer term is devoted to problems forming part of the student's program of work. The term may carry residence credit equal to that of a normal academic term. Participation in the program cannot be undertaken without the consent of the student's Special Committee.

Architectural Design

Courses in brackets are not offered this year. A studio fee of \$65 is charged each semester for every design course (these fees are subject to change).

Sequence Courses

ARCH 101 Design I

Fall. 6 credits. Limited to department students.

Studios and lec's, M W F 2-6. Staff. An introduction to design as a conceptual discipline directed at the analysis, interpretation, synthesis, and transformation of the physical environment. Exercises are aimed at developing an understanding of the issues, elements, and processes of environmental design.

ARCH 102 Design II

Spring. 6 credits. Limited to department students. Prerequisite: Architecture 101 and Architecture 151. A continuation of Architecture 101.

Studios and lec's, M W F 2-6. Staff. Human, social, technical, and aesthetic factors related to space and form. Design problems range from those of the immediate environment of the individual to that of small social groups.

ARCH 201-202 Design III and IV

Fall and spring. 6 credits each term. Coregistration in Architecture 231-232 and completion of Architecture 151-152 required. Limited to department students. Prerequisite for Architecture 201 is Architecture 102 and Architecture 152. Prerequisite for Architecture 202 is Architecture 201.

Studios and sems, M W F 2-6. Staff.

ARCH 301-302 Design V and VI

Fall and spring. 6 credits each term. Limited to department students. Prerequisite for Architecture 301 is Architecture 202. Prerequisite for Architecture 302 is Architecture 301.

Studios and sems, M W F 2-6. Staff.

ARCH 401-402 Design VII and VIII

Fall and spring. 6 credits each term. Limited to department students. Prerequisite for Architecture 401 is Architecture 302. Prerequisite for Architecture 402 is Architecture 401.

Studios and sems, M W F 2-6. Staff. Programs in architectural design, urban design, or architectural technology and environmental science, etc.

ARCH 501 Design IX

Fall or spring. 6 credits. Limited to department students. Prerequisite: Architecture 402. Studios and sems, M W F 2-6. Staff.

Programs in architectural design, building typology investigations, and research leading to complete development of the student's thesis program. General instruction in the definition, programming, and development of a thesis is followed by tutorial work with the student's advisory committee.

ARCH 502 Design X—Thesis

Fall or spring. 8 credits. Prerequisite: Architecture 501 or Architecture 500 and Architecture 510. Required of B.Arch. candidates who must satisfactorily complete a thesis. Students accepted for admission to the Overlap Program are exempt from the thesis requirement.

Studios, M W F 2-6. Staff.

ARCH 601-602 Special Program in Architectural Design

Fall and spring. 9 credits each term. Limited to students who have been accepted into the Overlap Program. Registration by petition only.

ARCH 603-604 Special Program in Urban Design

Fall and spring. 9 credits each term. Limited to students who have been accepted into the Overlap Program. Registration by petition only.

Graduate Courses

ARCH 701-702 Problems in Architectural Design

Fall and spring. 9 credits each term. Studio and sem, hours to be arranged. Staff.

Basic first-year design course for graduate students whose major concentration is architectural design.

ARCH 703-704 Problems in Urban Design

Fall and spring. 9 credits each term. Studio and sem, hours to be arranged. Staff.

Basic first-year design course for graduate students whose major concentration is urban design.

ARCH 801 Thesis or Research in Architectural Design

Fall or spring. 9 credits. Prerequisite: Architecture 701 and Architecture 702. Hours to be arranged. Staff.

Second-year design course for graduate students whose major concentration is architectural design.

ARCH 802 Thesis or Research in Urban Design

Fall or spring. 9 credits. Prerequisite: Architecture 703 and Architecture 704.

Hours to be arranged. Staff. Second-year design course for graduate students whose major concentration is regional design.

Elective Design Courses

ARCH 103-104 Elective Design Studio

103, fall; 104, spring. 6 credits each term. Limited to students from outside the department. Prerequisite for Architecture 103: permission of instructor. Prerequisite for Architecture 104: Architecture 103 or permission of instructor.

M W F 2-6. Staff.

ARCH 303 Special Problems in Architectural Design

Fall or spring. Variable credit (maximum, 3). Prerequisite: permission of instructor and approved independent study form. Hours to be arranged. Staff. Independent study.

ARCH 200, 300, 400, 500 Elective Design

Fall or spring. 6 credits each term. Open by permission to transfer students who have not been assigned to a sequence course. Prerequisite: permission of department office. Each student is assigned to a class of appropriate level. Prerequisite for Architecture 500 is Architecture 402. M W F 2-6. Staff.

ARCH 605 Special Problems in Design

Fall and spring. Variable credit (maximum 3). Prerequisite: permission of instructor. Hours to be arranged. Staff. Independent study.

Related Courses and Seminars

ARCH 110 Introduction to Architecture: Design Studio

Summer session. 3 credits. S-U option. Open to non-architectural majors in college, high school students in 11th and 12th grades, and any individuals with a minimum of a high school diploma interested in exploring the field of architecture. Not offered every year. Studio M T W F 1:30-4:30. Staff.

A course designed to introduce students to ideas, principles, and methods of solving architectural problems in a studio setting. Through a graduated sequence of exercises culminating in a major term project, students explore the architectural concepts of space, form, function, and technology. Instruction is via highly personalized critiques of individual student work by assigned department faculty as well as by periodic reviews of group by invited faculty and guest critics. The course grade is based on the overall performance in the studio with special emphasis on the quality of a major studio project.

ARCH 111 An Introduction to Architectural Design

Fall or spring. 4 credits. Open to out-of-department students only. Not offered every year.

Studio T R 2:30-4:25. Staff. An introduction to architectural design as a conceptual discipline. Exercises will develop an understanding of architectural space and its elements.

ARCH 317 (367) Contemporary Italian Culture

Fall or spring. Variable credit (maximum, 3). For students in the Rome program only.

Staff and visiting faculty. This course provides a broad view of the culture and social structure of Italy, drawing from Italian literature, history, and current events.

ARCH 411 (461) Professional Practice

Fall or spring. 3 credits each term. T 1:25-4:25. M. Schack and staff. An examination of organizational and management theories and practices for delivering professional design services. Included is a historic overview of the profession and a review of the architect's responsibilities from the precontract phase through construction. Application of computer technology in preparing specifications.

[ARCH 412 (462) Professional Seminar] Fall or spring. 3 credits. Washington Program only.]

ARCH 510 Thesis Introduction

Foreign summer programs and Rome program only. 3 credits. Must be taken in conjunction with Architecture 500. Prerequisite for Architecture 500 is Architecture 402. Architecture 500 will be considered equivalent to Architecture 501 when taken concurrently with Architecture 510 during a foreign summer program or in Rome.

Lecs and sems. Staff. Lectures, seminars, and independent research leading to complete development of the student's thesis program. General instruction in the definition, programming, and development of a thesis.

ARCH 610 Graduate Design Seminar

Fall. 3 credits. Intended for but not limited to graduate students in the Architectural Design and Urban Design Program. Seminar. Hours to be arranged. Staff. Issues in architectural and urban design. Required for first-year graduate students in design.

ARCH 611-612 Urban Housing Developments

611, fall; 612, spring. 3 credits each term. Limited to fourth- and fifth-year students in architecture and graduate students. Prerequisite: permission of instructor. Not offered every year. Staff.

ARCH 613 Transportation

Fall. 3 credits. Prerequisite: permission of instructor. Not offered every year. Sem, hours to be arranged. Staff. The impact of various transportation forms on the environment is considered from the perspectives of architects, engineers, planners, and human ecologists. Readings and discussions of past, current, and future transportation modes focus on aesthetic and physical aspects.

ARCH 614 Low-Cost Housing

Fall. 3 credits. Prerequisite: permission of instructor. Not offered every year. T 2-4:30. H. W. Richardson. Aspects of low-cost housing involving engineering technology, architecture, physical planning, economics, and sociology.

ARCH 618-619 Seminar in Urban and Regional Design

618, fall; 619, spring. 3 credits each term. Limited to fifth-year and graduate students. Not offered every year. Hours to be arranged. Staff and guest lecturers. A broad range of issues and problems of urban and regional development and the context in which the designer functions are surveyed. Selected case studies are presented by the participants and visitors.

Architectural Theory

ARCH 130 An Introduction to Architecture: Lecture Series

Summer. 3 credits. S-U option. Open to non-architectural majors in college, high school students in 11th and 12th grades, and any individuals with a minimum of a high school diploma interested in exploring the field of architecture. Not offered every year. Lec M T W F 9:00-12:00. Staff.

A survey course that covers the many facets of architecture: history, design principles, preservations, landscape architecture, building technology, and cultural factors. The format of the course comprises lectures, demonstrations, films, and field trips. Course evaluation is based on quizzes and a final examination.

ARCH 131 An Introduction to Architecture

Fall, spring, or summer. 3 credits. Open to out-of-department students only. Architecture 131 is not a prerequisite for Architecture 132. Lec T R 1:25-2:15. Disc to be arranged. Staff, guest lecturers.

Intended to familiarize non-architecture students with the art and science of architecture. Fundamentals of plan, section, and elevation, the primary elements that comprise an architectural form; basic organizational principles; the ways in which we perceive architectural space; and the various concepts of function in relation to form will be included among the topics to be covered, using examples from numerous times and cultures as well as from the contemporary Cornell campus.

ARCH 132 An Introduction to Architecture

Spring. 3 credits. Open to out-of-department students only. Architecture 131 is not a prerequisite for Architecture 132. Lec T R 1:25-2:15. Disc to be arranged. Staff, guest lecturers.

Non-architecture students are initiated into various types of architectural drawings and exposed to a variety of methods whereby architectural forms communicate both simple and complex meanings. Architecture in its relation to fields such as landscape architecture, urban design, structural design, interior design, set design, architectural history, preservation, and computer graphics will be included in the presentations, which will also deal with the various relationships established between an architect and a society. Cross-historical and cross-cultural examples will be used in developing in the student a degree of fluency in the languages of architectural discourse.

ARCH 231 Architectural Analysis I

Fall. 2 credits. Architecture students must register concurrently in Architecture 201. Studios and lecs, T 1:25-3:20. Staff. An introduction to analysis of the object of study in the interest of broadening one's understandings of the ways in which architecture can connote and denote meanings.

ARCH 232 Architectural Analysis II

Spring. 2 credits. Architecture students must register for this course concurrently with Architecture 202. Studios and lecs, T 1:25-3:20. Staff. Advanced analytical studies focusing on complex architectural spaces, objects, images, and representations.

ARCH 335 Theory of Architecture

Fall or spring. 3 credits. Prerequisite: Architecture 231-232 or permission of instructor. Not offered every year. Lec, T R 4:40-6:30. L. F. Hodgden.

ARCH 336 Theory of Architecture

Fall or spring. 3 credits. Limited to third-year students and above. Not offered every year. Lec, T R 4:40-6:30. L. F. Hodgden.

Theories of modern architecture: De Stijl, cubist and purist painting, industrialized architecture, Le Corbusier's architecture and urban theories, architectural sequence, facades, the free plan, "DOM-INO" theory.

ARCH 337 Special Investigations in the Theory of Architecture I

Fall or spring. Variable credit (maximum, 3). Prerequisite: permission of instructor and approved independent study form.

Hours to be arranged. Staff.
Independent study.

ARCH 338 Special Topics in the Theory of Architecture I

Fall or spring. 3 credits. Prerequisite: permission of instructor. Not offered every year.

Hours to be arranged. V. Warke and visiting faculty.
Topic to be announced before preregistration.

ARCH 339 Elements, Principles, and Theories in Japanese Architecture

Spring. 3 credits. Not offered every year. Seminar. Hours to be arranged. L. Mirin, C. Pearman.

An examination of Japanese architecture—buildings and gardens—and their contexts—landscapes, settlements, and cities. The course is addressed to those interested in Japanese architecture as a manifestation of Japanese culture and as a subject for analysis. Emphasis is on underlying concepts, ordering principles, formal typologies, space and its representation, perceptual phenomena, and symbolic content. Readings focus on theoretical treatments of these aspects by Japanese and western writers.

ARCH 431 Theory of Architecture

Fall. 3 credits. Prerequisite: third-year status. Not offered every year.

Lecs, T R 4:40–6:30. L. F. Hodgden.
Gardening and architecture: urban parks; villas and country houses; and Italian, French, and English landscape gardens. Site planning.

ARCH 432 Theory of Architecture

Spring. 3 credits. Prerequisite: third-year status. Not offered every year.

Lecs, T R 4:40–6:30. L. F. Hodgden.
The development of urban form, urban intervention, contextualism, ideal cities, historic new towns, streets, piazzas, fortifications, public buildings and social housing types, site planning, and transportation.

ARCH 435 Architecture and Representation

Fall. 3 credits. Limited to degree candidates in architecture. Prerequisite: successful completion of Architecture 231–232. Not offered every year.

Lecs, disc, and reviews, T R 2:30–4:30. V. Warke.

A study of architecture as it functions as a representational art, referring to its past while inferring its present.

ARCH 635 Critical Theory in Architecture

Spring. 3 credits. Prerequisite: permission of instructor. Not offered every year.

Sem, hours to be arranged. V. Warke.
An inquiry into the fundamental principles of architectural criticism in theory and practice, with emphasis on the structures of criticism in the twentieth century.

ARCH 637 Special Investigations in the Theory of Architecture II

Fall or spring. Variable credit (maximum, 4). Prerequisite: permission of instructor and approved independent study form.

Hours to be arranged. Staff.
Independent study.

ARCH 638 Special Topics in the Theory of Architecture II

Fall or spring. 3 credits. Prerequisite: permission of instructor. Not offered every year.

Hours to be arranged. Staff.
Topic to be announced before preregistration.

ARCH 639 Principles of Design Process

Fall or spring. 3 credits. Limited to third-year architecture students and above; students in other colleges must have permission of instructor. Not offered every year.

Sems, M W 10:10–12:05. A. Mackenzie.
Analysis of the major theories and techniques of design developed during the past fifteen years, with special emphasis on application to the solution of whole problems in architectural design.

Architecture, Culture, and Society

ARCH 342 Architecture as a Cultural System

Spring. 3 credits. Architecture 445, 446, 447, or 448 can substitute with permission of instructor.

M W F 10:10–11:00. B. MacDougall.
What have been the major issues in the theory and practice of architectural design through time and across cultures, and how is aesthetic judgment related to more general systems of ordering within a particular society or group? This course draws on concepts, methods, and findings from the broad field of cultural anthropology to address these questions. Case studies and examples are drawn from a wide range of architectural traditions around the world for which there is a significant ethnographic literature, with special emphasis on sub-Saharan Africa, India, and the United States. Topics include the ideational and formal relationships between folk and monumental traditions in complex societies, the structure of the ideal social order and its refraction in the material world, cosmological models and architectural form, geometries of non-Western traditions, and the relationship between indigenization and culture change.

ARCH 349 Undergraduate Investigations in Architecture, Culture, and Society

Fall or spring. Variable credit (maximum 3). Prerequisite: permission of instructor and approved independent study form.

Hours to be arranged. B. MacDougall.
Independent study.

ARCH 441–442 Special Topics in Architecture, Culture, and Society

Fall and spring. 3 credits each term. Prerequisite: permission of instructor.

Hours to be arranged. Topic to be announced. B. MacDougall.
Topic to be announced before preregistration.

ARCH 445 Architecture and the Mythic Imagination

Fall. 3 credits. Prerequisite: Architecture 342 or permission of instructor.

M W F 10:10–11:00. B. MacDougall.
This course focuses on traditional societies in which beliefs about architectural order are borne out of the mythic and religious imagination. Certain themes that are common

to a range of cultures are explored in detail. They include the model of the human body as a source of architectural knowledge, the sacred center, the cosmic mountain, and architectural rituals as enactments of myths. Such themes are traced across cultures, through time and into contemporary theory.

ARCH 446 Topics in Architecture, Culture, and Society

Fall or spring. 3 credits. Prerequisite: Architecture 342 or permission of instructor.
Hours to be announced. B. MacDougall.

ARCH 447 Architectural Design and the Utopian Tradition

Fall. 3 credits. Prerequisite: Architecture 342 or permission of instructor.

R 2:30–4:30. B. MacDougall.
This course explores the relationship between visionary architecture of the late 19th and 20th centuries and the wider utopian literature of the time. It first explores themes in utopian fiction as well as in anti-utopian tracts and then turns to the attempts of architects, planners, and artists to concretize visions of the ideal world. The course will devote special attention to the ways in which ideals grounded in the utopian tradition have emerged in the social criticism of housing and neighborhood design in the urban setting in recent times.

ARCH 448 The Indian Example and the Visual Tradition in Culture

Spring. 3 credits. Prerequisite: Architecture 342 or permission of instructor.

T R 2:30–4:30. B. MacDougall.
This course provides a concise chronological summary of the major building traditions of Hindu India and explores the relationship between form and more general beliefs about the power of vision to reveal and transform. Topics include the sculptural program of the Hindu temple as a vehicle for the preservation and transmission of mythic texts, the oculus as an element and the eye as a motif, darshan, the spiritually transforming vision, and the destructive power of vision as revealed in myth and beliefs about "evil eye."

ARCH 647–648 (667–668) Architecture in Its Cultural Context I and II

647, fall; 648, spring. 4 credits each term. Prerequisite: permission of instructor. Not offered every year.

Sem, M W F 10:10. B. MacDougall.
Fall term, theory; spring term, problem solving and method. An examination of the relationship between architecture and other aspects of culture. Emphasis on the motivations for particular architectural forms and especially on theories of architecture. Examples from the United States and Asia.

ARCH 649 Graduate Investigations in Architecture, Culture, and Society

Fall or spring. Variable credit (maximum 4). Prerequisite: permission of instructor and approved independent study form.

Hours to be arranged. B. MacDougall.
Independent study.

Visual Studies

Darkroom fees charged for all photography courses.

ARCH 151 Drawing I

Fall. 2 credits.

Studios, T R 2:30–4:25. Staff.
Freehand drawing with emphasis on line and perspective representation of form and space.

ARCH 152 Drawing II

Spring. 2 credits. Prerequisite: Architecture 151.

Studios, T R 2:30–4:25. Staff.
Freehand drawing as a means of conceiving and expressing spatial form; line weight, shades and shadows, and figure drawing.

ARCH 251 Introductory Photo I (also Art 161)

Fall or spring. 3 credits each term.

Hours to be arranged. Art staff.
For description see Art 161.

ARCH 351 Photography II (also Art 261)

Spring. 4 credits. Prerequisites: Architecture 251 or Art 161, or permission of instructor.

Hours to be arranged. Art staff.
For description see Art 261.

ARCH 356 Architectural Simulation Techniques

Fall or spring. 3 credits. Prerequisite: Architecture 151 or permission of instructor. Not offered every year.

Lec and studio, hours to be arranged. G. Hascup.

Two- and three-dimensional simulation techniques in architecture. Emphasis on simulation of environment, space, materials, and lighting as visual tools for architectural design.

ARCH 450 Architectural Publications

Fall and spring. Variable credit (maximum 3). May be repeated for credit.

Lecture and studio, hours to be arranged. Staff.

Colloquy and practicum on issues related to the production of an architectural journal, as well as other theoretical and practical production related to the exchange of architectural ideas. Exercises will cover both theoretical as well as hands-on aspects of architectural publication.

ARCH 457 Special Project in Photography

Fall or spring. Variable credit (maximum, 3). Prerequisites: written proposal outlining the special project and permission of instructor. Not offered every year.

Hours to be arranged. Staff.
Independent study.

ARCH 458 Special Investigations in Visual Studies

Fall or spring. Variable credit (maximum, 3). Prerequisites: permission of instructor and approved independent study form.

Hours to be arranged. Staff.
Independent study.

ARCH 459 Special Topics in Visual Studies I

Fall or spring. 3 credits. Prerequisite: permission of instructor.

Hours to be arranged. Staff.
Topics to be announced before preregistration.

ARCH 658 Special Investigations in Visual Studies II

Fall or spring. Variable credit (maximum 4). Prerequisites: permission of instructor and approved independent study form.

Hours to be arranged. Staff.
Independent study.

ARCH 659 Special Topics in Visual Studies II

Fall or spring. 3 credits. Prerequisite: permission of instructor.

Hours to be arranged. Staff.

Topic to be announced before preregistration.

Architectural Science and Technology Structures

ARCH 263 Structural Concepts

Fall. 4 credits. Prerequisite: Mathematics 111 or approved equivalent.

Lecs and sems, T R 9:05–11. Staff.
Fundamental concepts of structural behavior. Statics and strength of materials. Introduction to and analysis of simple structural systems.

ARCH 264 Structural Elements

Spring. 3 credits. Prerequisite: Architecture 263.

Lecs and sems, T R 9:05–11. M. Cruvellier.
Concepts and procedures for the design of individual structural components (columns, beams, etc.) in steel, concrete, and timber construction.

ARCH 363 Structural Systems

Fall. 3 credits. Prerequisite: Architecture 264.

Lec and sems, M W F 11:15–12:05. M. Cruvellier.

Concepts and procedures for the design of overall structural framing systems in steel, concrete, and timber construction.

ARCH 463 Special Topics in Structures

Fall or spring. 3 credits. Limited to 30 students. Prerequisites: Architecture 263, 264, and 363 or permission of instructor. Not offered every year.

Hours to be arranged. Staff.
Topic to be announced by preregistration.

ARCH 473 Special Investigations in Structures

Fall or spring. Variable credit (maximum 3). Prerequisite: permission of instructor and approved independent study form.

Hours to be arranged. Staff.
Independent study.

Construction

ARCH 160 The History of Architectural Technology

Fall or spring. 3 credits. Not for students in the Department of Architecture. Not offered every year.

Staff.
Architectural technology is a seemingly illogical blend of scientific knowledge and empirical experience. Whereas it may seem chaotic to the nonprofessional, it is a product of logic in the widely differing areas of design, structure, installation, production and erection, material use, law, economics, and historical development. The evolution of this interdependence is treated using examples of architectural and civic engineering works and processes.

ARCH 161 An Introduction to Building Technology

Fall. 3 credits. Open to out-of-department students only. Not offered every year.

Lecs T 2:30–4:25. Staff.
An introduction to building technology, materials, and construction systems for non-architecture majors. Topics will include structure (why buildings stand up); enclosure (mediation of environmental conditions); mechanical systems (how buildings provide comfort, hygiene, and life safety); and interior surfaces (walls, floors, ceilings, acoustical behavior, and fire safety). The relationship between the principles and practices underlying the construction of buildings

(“technology”) and what buildings look like (“design”) will also be explored. Concepts rather than computation will be emphasized.

ARCH 262 Building Technology, Materials, and Methods

Spring. 3 credits.

Lecs, M W F 12:20–1:10. J. Ochshorn.
Properties of materials—their use and application to the design of buildings and building systems. Discussion of various methods of building construction and assembly.

ARCH 465 Special Topics in Construction

Fall or spring. 3 credits. Limited to 30 students. Prerequisites: Architecture 262 or permission of instructor. Not offered every year.

Hours to be arranged. Staff.
Topic to be announced by preregistration.

ARCH 475 Special Investigations in Construction

Fall or spring. Variable credit (maximum 3). Prerequisite: permission of instructor and approved independent study form.

Hours to be arranged. Staff.
Independent study.

Environmental Controls

ARCH 261 Environmental Controls—Site Planning

Fall. 3 credits.

Lecs, M W F 11:15–12:05. J. Ochshorn.
The basic principles involved in design in the outdoor environment. A brief historical perspective. A development of inventory including grading and drainage. Foundations, surfacing, and construction.

ARCH 361 Environmental Controls—Lighting and Acoustics

Fall. 3 credits.

Lecs, T R 11:15–1:10. R. Hall and staff.
Basic properties and principles of sound and light. Sound phenomena, noise control, absorption, acoustical design. Light, color, and form. Natural lighting possibilities and constraints. Good and bad examples of artificial lighting.

ARCH 362 Environmental Controls—Mechanical and Passive Solar Systems

Spring. 3 credits.

Lecs, T R 11:15–1:10. S. Thiratrakoolchai.
Basic thermal analysis of buildings, human comfort criteria, energy conservation, passive solar design, HVAC distribution systems, overview of mechanical conveying systems and plumbing.

ARCH 464 Special Topics in Environmental Controls

Fall or spring. 3 credits. Limited to 30 students. Prerequisites: Architecture 261, 361, and 362 or permission of instructor. Not offered every year.

Hours to be arranged. Staff.
Topic to be announced by preregistration.

ARCH 474 Special Investigations in Environmental Controls

Fall or spring. Variable credit (maximum 3). Prerequisite: permission of instructor and approved independent study form.

Hours to be arranged. Staff.
Independent study.

Computer Applications

ARCH 374 Computer Graphics and Visualization (also Computer Science 417)

Spring. 3 credits. Prerequisites: two terms of calculus and Computer Science 211, or equivalent. Not offered every year.

2 lecs, 1 lab. Staff.

Introduction to the principles of interactive computer graphics, including input techniques, display devices, display files, interactive graphic techniques, two- and three-dimensional computer graphics, perspective transformations, hidden line and hidden surface algorithms, and color-picture generation.

ARCH 375 Practicum in Computer Graphics (also Computer Science 418)

Spring. 2 credits. Prerequisite: Computer Science 211. Recommended: Computer Science 314. Corequisite: Architecture 374. Not offered every year.

1 lab.

Two or three programming assignments dealing with sophisticated interactive vector graphics programs on calligraphic displays and solid-image generation on raster graphics displays.

ARCH 378 Computers in Architecture Seminar

Fall or spring. 3 credits. Prerequisites: Computer Science 100 or permission of instructor. Not offered every year.

Hours to be arranged. H. Richardson and staff.

Exploration of the use of computers in a variety of ways encompassing architectural practice and education. Use of the computer is not required for this course.

ARCH 379 Design by Computer

Spring. 3 credits. Prerequisites: Limited to third-year students and above. Not offered every year.

Hours to be arranged. R. Hall.

Exploration of the formalization of the design process for compatibility with the computer, and the role of computers in design. Lecture with CAD lab.

ARCH 476 Special Topics in Computer Applications

Fall or spring. 3 credits. Limited to 30 students. Prerequisites: Architecture 374 or 379 or permission of instructor. Not offered every year.

Hours to be arranged. Staff.

Topic to be announced by preregistration.

ARCH 477-478 Special Projects in Computer Graphics

477, fall; 478, spring. Variable credit (maximum, 4). Limited to third-year students and above. Prerequisites: Architecture 374 plus concurrent registration in Computer Science 314 or equivalent, and permission of instructor.

Hours to be arranged. D. P. Greenberg and staff.

Advanced work in computer graphics input and display techniques, including storage tube, dynamic vector and color raster displays.

Graduate Courses

ARCH 761-762 Architectural Science Laboratory

761, fall; 762, spring. 6 credits each term. Open to architectural science graduate students only.

Hours to be arranged. Staff.

Projects, exercises, and research in the architectural sciences.

ARCH 763-764 Thesis or Research in Architectural Science

763, fall; 764, spring. Variable credit (maximum, 12). Limited to architectural science graduate students.

Hours to be arranged.

Independent study.

Architectural History

The history of the built domain is an integral part of all aspects of the architecture curriculum, from design and theory to science and technology. Incoming students take Architecture 181-182 in the first year, and three additional courses from the 380-399 series, preferably in the third and fourth years. Seminars are intended for advanced undergraduate and graduate students and do not satisfy undergraduate history requirements. Courses with the same number may only be taken once to satisfy history of architecture or in-college requirements.

Sequence Courses

ARCH 181 History of Architecture I

Fall. 3 credits. Required of all first-year students in architecture; open to all students in other colleges with an interest in the history of the built domain.

T R 11:15-1:10. Staff.

The history of the built environment as social and cultural expression from the earliest to more recent times. Themes, theories, and ideas in architecture and urban design are explored, beginning with the earliest written records.

ARCH 182 History of Architecture II

Spring. 3 credits. Required of all first-year students in architecture. Open to all students in other colleges with an interest in the history of the built domain; may be taken independently of Architecture 181.

T R 11:15-1:10. Staff.

The history of the built environment as social and cultural expression from more recent times to the present. Themes, theories, and ideas are addressed in greater detail for architecture and urban design leading to the present.

Directed Electives

ARCH 380 History of Theory

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. M. Jarzombek.

This course, in which classroom discussion and debates play a central role, explores the history of important theoretical issues involving art and architecture. The readings, which span from the Greeks to today, focus on more than just questions of aesthetics and include theories of ethics, origins, imagination, nature, society, and pedagogy.

ARCH 381 Greek and Roman Architecture and Urbanism

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. M. Jarzombek.

The history of architecture and urban design in ancient Mediterranean civilizations, with emphasis on Greece and Rome. The course considers change and transformation of

building types and their elements within the general context of social demands.

ARCH 382 Architecture of the Middle Ages

Fall. 4 credits. Prerequisites: Architecture 181-182 or permission of instructor. Credit for this course may be obtained by taking History of Art 332. Not offered every year.

Hours to be announced. R. G. Calkins.

A survey of medieval architecture from the Early Christian period to the late Gothic (A.D. 300-1500). Emphasis is given to the development of structural systems, form, function, and meaning of important medieval buildings.

ARCH 383 The City

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. M. Jarzombek.

This course looks at the development of urban form and urban consciousness from the bronze age to the industrial revolution. It studies conceptions of the city, competing urban paradigms, images of cities both real and fictive, as well as the religious and cultural practices associated with city design.

ARCH 384 The Italian Renaissance: Architecture, Politics, and Urbanism

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. M. Jarzombek.

This course focuses on the leading architects and theorists of the Renaissance from within the context of the political and cultural developments in Italy from 1300 to the mid-sixteenth century. The course also investigates specific architectural problems faced by designers as well as questions of architectural patronage, practices, and theories.

ARCH 385 Magnificent Utility—Architecture and the Arts of Persuasion

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. C. F. Otto.

Architects put revolutionary attitudes about form, space, light, and the arts into practice during the course of the seventeenth century. Focusing on the urban centers of Rome and Paris and the cultural landscapes of Spain, England, and Central Europe, this course explores how architecture, urban design, and the arts were employed to promote state and church.

ARCH 387 The Nineteenth Century—Style, Technology, and Individuality in the West

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. M. Woods.

An examination of the nineteenth-century efforts to create appropriate stylistic forms and expressions for emerging building technologies and typologies. The preservation of individual artistic expression against the backdrop of industrialization, urbanization, and professionalization will be emphasized. The course begins with Rationalist theory and its architectural expression and concludes with considerations of Art Nouveau, Modernismo, and Jugendstil.

ARCH 388 Modernism

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. C. F. Otto. Precursors and proponents of the modern movement from the late nineteenth century into the 1940s are considered in this course. The cultural intents of the modern are examined in architectural and urban design for individuals, groups, and institutions, from Mies van der Rohe, Le Corbusier, and Frank Lloyd Wright to de Stijl, the Bauhaus, and design education. Attention is paid to the politics of design in the service of the state during the 1930s.

ARCH 389 Architecture, Revolution and Tradition

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. C. F. Otto. From early eighteenth to early nineteenth century, European society underwent profound change. Political absolutism—the doctrine of unlimited government control—was challenged; Enlightenment attitudes—commitments to human reason, science and education—gained ascendancy. This course considers architectural and urban design in these times of tumult. It begins with efforts to foment architectural revolution within inherited traditions and ends with attempts to establish design traditions within revolutionary settings.

ARCH 390 American Architecture and Building I

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. M. Woods. A review of architecture, building, and responses to the landscape from the prehistoric period to the Civil War. Architecture and building as social and collaborative arts will be emphasized and thus the contributions of artisans, clients, and users as well as professional architects and builders will be examined. The architectural expressions of Native Americans, African Americans, women, and others will be treated in addition to those of European colonists and settlers.

ARCH 391 American Architecture and Building II

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. M. Woods. A continuation of Architecture 390 but may be taken independently. An account of American architecture, building, and responses to the environment from the post-Civil War period to the present day. Particular attention will be paid to the processes of industrialization, professionalization, and urbanization as well as to the manifestations of gender, class, race, and ethnicity in the built and architectural environments.

ARCH 392 Modern Architecture On Film

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. M. Woods. An exploration of certain themes deemed critical to modern architecture and urbanism through their representation in both commercial and avant-garde films from the medium's birth until the present day. The focus will

vary each semester with particular emphases to include the modern house and housing, the modern city, technology and visions of the future, and finally the image of the architect. Representations of these themes in other forms such as painting, photography, theatre, literature, and advertising will also be examined. Selected readings in modern architecture and film, screenings in class, class discussions, presentations, and papers.

ARCH 393 The Cumulative City

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. C. F. Otto. Well established cities were transformed by radical and unimagined change in the nineteenth and twentieth centuries. Politics and economies were recast, populations exploded, and new technologies reshaped transportation, communication, and building. This course explores transformation historically in the cumulative city, focusing on specific cities in America and Europe, Africa, and Asia. The cultural context of each city is examined to understand how it changed and how meanings became associated with evolving urban forms.

ARCH 394 Toward the Millenium

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. C. F. Otto. Theory and practice in architecture and urbanism are investigated from the 1950s to the present. From the Americanized International Style to the recent internationalism of design attitudes, the immediate past is explored historically to probe the matrix of meanings associated with contemporary form, urbanism, and technology.

ARCH 395 Contemporary Issues in the Built Environment

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be announced. M. Woods and S. Christopherson. A consideration of how certain social, cultural, political, ethical, and economic issues are manifest in the architectural and built environments of the United States. Overarching issues will be examined through case studies such as the question of monuments and monumentality in a contemporary, multicultural society through the Vietnam Memorial in Washington, D.C., Holocaust museums and memorials, and the preservation of the Audubon Ballroom as a memorial to Malcolm X. Historical concerns and examples will be brought to bear on these contemporary manifestations of preservation, monumentality, gender, class, professional responsibility, and ethics and design as a collaborative art. A course for architects, planners, and preservationists but also clients and users of buildings and landscape.

ARCH 396 Special Topics in the History of Architecture and Urbanism

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be arranged. M. Jarzombek. Topic to be announced.

ARCH 397 Special Topics in the History of Architecture and Urbanism

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be arranged. C. F. Otto. Topic to be announced.

ARCH 398 Special Topics in the History of Architecture and Urbanism

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be arranged. M. Woods. Topic to be announced.

ARCH 399 Special Topics in the History of Architecture and Urbanism

Fall or spring. 3 credits. Prerequisites: Architecture 181-182 or permission of instructor. Not offered every year.

Hours to be arranged. Staff. Topic to be announced.

Courses in Preservation

ARCH 583 Measured Drawing (also City and Regional Planning 567)

Fall. 3 credits. For undergraduate architecture students and graduate students in history and preservation. Prerequisite: permission of instructor.

Hours to be announced. M. A. Tomlan. Combines study of architectural drawings as historical documents with exercises in preparing measured drawings of small buildings. Presents the basic techniques of studying, sketching, and measuring a building and the preparation of a finished drawing for publication.

ARCH 584 Problems in Contemporary Preservation Practice (also City and Regional Planning 563)

Spring. Variable credit (maximum, 3).

Hours to be announced. Staff. A review and critique of ongoing preservation projects and an investigation of areas of expertise currently being developed, presented by staff and guest lecturers.

ARCH 585 Perspectives on Preservation (also City and Regional Planning 562)

Fall. 3 credits.

Hours to be announced. J. Cody. Introductory course for preservation planning. The rationale for, and methods of, using existing cultural and aesthetic resources in the planning and design of regions and cities.

ARCH 586 Documentation for Preservation (also City and Regional Planning 560)

Fall. 3 credits.

Hours to be announced. M. A. Tomlan and visiting lecturers. Methods of collecting, recording, processing, and analyzing historical architectural and planning materials.

ARCH 587 Building Materials Conservation (also City and Regional Planning 564)

Spring. 3 credits. Open to juniors, seniors, and graduate students.

Hours to be announced. M. A. Tomlan. A survey of the development of building materials in the United States, chiefly during the nineteenth and early twentieth centuries, and a review of the measures that might be taken to conserve them.

ARCH 588 Historic Preservation Planning Workshop: Surveys and Analyses (also City and Regional Planning 561)

Fall. 4 credits.

Hours to be announced. Staff.
Techniques for the preparation of surveys of historic structures and districts; identification of American architectural styles, focusing on upstate New York; explorations of local historical resources, funding sources, and organizational structures. Lectures and training sessions. Emphasis on fieldwork with individuals and community organizations.

Graduate Seminars in the History of Architecture and Urbanism

ARCH 680 Seminar in Historiography

Fall. 4 credits. Prerequisite: permission of instructor.

Hours to be arranged. Staff.
Historiographic and methodological issues are examined in relation to the history of architecture and urbanism. Taught by different faculty members in successive years, the seminar is required of all first- and second-year graduate students in the History of Architecture and Urbanism program.

ARCH 682 Seminar in Urban History

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year.

Hours to be arranged. M. Jarzombek.
Topic to be announced.

ARCH 683 Seminar in the History of Theory

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year.

Hours to be arranged. M. Jarzombek.
Topic to be announced.

ARCH 684 Seminar in the Italian Renaissance: Architecture, Politics, and Urbanism

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year.

Hours to be arranged. M. Jarzombek.
Topic to be announced.

ARCH 686 Seminar in Seventeenth- and Eighteenth-Century Architecture and Urbanism

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year.

Hours to be arranged. C. F. Otto.
Topic to be announced.

ARCH 688 Seminar in Twentieth-Century Architecture and Urbanism

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year.

Hours to be arranged. C. F. Otto.
Topic to be announced.

ARCH 689 Seminar in the History of Cities

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year.

Hours to be arranged. C. F. Otto.
Topic to be announced.

ARCH 690 Seminar in American Architecture, Building, and Urbanism

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year.

Hours to be arranged. M. Woods.
Topic to be announced.

ARCH 692 Seminar in Nineteenth-Century Architecture, Building, and Urbanism

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year.

Hours to be arranged. M. Woods.
Topic to be announced.

ARCH 696 Seminar in Special Topics in the History of Architecture and Urbanism

Fall or spring. 4 credits. Prerequisites: permission of instructor. Not offered every year.

Hours to be arranged. M. Jarzombek.
Topic to be announced.

ARCH 697 Seminar in Special Topics in the History of Architecture and Urbanism

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year.

Hours to be arranged. C. F. Otto.
Topic to be announced.

ARCH 698 Seminar in Special Topics in the History of Architecture and Urbanism

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year.

Hours to be arranged. M. Woods.
Topic to be announced.

ARCH 699 Seminar in Special Topics in the History of Architecture and Urbanism

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year.

Hours to be arranged. Staff.
Topic to be announced.

Independent Study, Thesis, Dissertation

ARCH 299 Undergraduate Independent Study in the History of Architecture and Urbanism

Fall or spring. Variable credit (maximum, 3). Prerequisite: permission of instructor. May not be taken by students in design to satisfy undergraduate history requirements.

Hours to be arranged. Staff.
Independent study for undergraduate students.

ARCH 499 Undergraduate Thesis in the History of Architecture and Urbanism

Fall or spring. 4 credits. For B.S. honors candidates in history only.

Hours to be arranged. Staff.

ARCH 799 Graduate Independent Study in the History of Architecture and Urbanism

Fall or spring. Variable credit. Prerequisite: permission of instructor.

Hours to be arranged. Staff.
Independent study for graduate students.

ARCH 899 M.A. Essay in the History of Architecture and Urbanism

Fall or spring. 4 credits.

Hours to be arranged. Staff.
Independent preparation of the M.A. essay, often developed from topics investigated in Arch 680.

ARCH 999 Ph.D. Dissertation in the History of Architecture and Urbanism

Fall or spring. Variable credit.

Hours to be arranged. Staff.
Independent study for the doctoral degree.

ART

V. G. Kord, chair; R. Bertoia, Z. Blum, S. Bowman, N. D. Daly, J. N. Locey, E. Meyer, E. Mikus, G. Page, B. Perlus, S. Poleskie, J. L. Squier, W. S. Taft, K. WalkingStick, G. S. White, and visiting critics.

Undergraduate Program

The undergraduate curriculum in art, leading to the degree of Bachelor of Fine Arts, provides an opportunity for the student to combine a general liberal education with the studio concentration required for a professional degree. During the first three semesters all students follow a common course of study designed to provide a broad introduction to the arts and a basis for the intensive studio experience in the last three years. Beginning with the third term, students concentrate on painting, sculpture, photography, or printmaking. They may elect additional studio work in any of these subjects during the last two years, with the consent of the instructor, providing the courses are taken in sequence and at the hours scheduled. These courses are designed to promote a knowledge and critical understanding of these arts and to develop the individual student's talent. All members of the faculty in the Department of Art are active, practicing artists, whose work represents a broad range of expression.

Studio courses occupy approximately one-half of the student's time during the four years at Cornell; the remainder is devoted to a diversified program of academic subjects with a generous provision for electives.

The curriculum in art is an independent program of study within the College of Architecture, Art, and Planning. However, the intimate relationships between the fine arts and training in architecture and city planning is a source of special strength in the Cornell program and affords unusual benefits to the students in these three disciplines.

Although the undergraduate curriculum in art is an excellent background for a career in applied art and offers courses in the use of graphics in modern communications, no specific technical courses are offered in such areas as interior design, fashion, or commercial art.

The department discourages accelerated graduation. However, a student may petition for consideration of early graduation by submission of a petition to the faculty before course enrollment in the spring semester of the student's junior year.

A candidate for the B.F.A. degree who also wants to earn a Bachelor of Arts degree from the College of Arts and Sciences can arrange to do so. This decision should be made early in the candidate's career (no later than the third semester), so that he or she can petition to be registered in both colleges simultaneously. Each student is assigned an adviser in the College of Arts and Sciences to provide needed guidance. Those students who are interested primarily in the history rather than

in the practice of art should apply for admission to the College of Arts and Sciences with the objective of pursuing a major in the Department of History of Art in that college. Department of Art studio courses may then be taken as electives.

The B.F.A. program is designed so that students may fulfill the degree requirements of 130 credits with a minimum of 66 credits taken in the Department of Art and a minimum of 55 credits taken outside the department. Within these ranges, students may design their own programs subject to the following limitations:

- 1) Students must plan their programs to complete 31 credits in one of the studio areas (painting, printmaking, sculpture, or photography), or 37 credits in a special concentration in multimedia. This multimedia program will enable students to fulfill concentration requirements by combining several studio disciplines including out-of-department studio courses such as those offered by the departments of Music, Theatre, and Dance etc. All B.F.A. students must complete a senior thesis in one area of concentration and are required to participate in the Senior Exhibition.

Students must take four introductory courses in the disciplines of painting, printmaking, sculpture, and photography. They must also take three second-level courses from among the four disciplines. In the area of printmaking, the second-level requirement is fulfilled by taking a second introductory course in lithography, etching, or screen printing.

- 2) A minimum of 55 electives credits must be taken outside of the department. Students are required to take courses from among three groups which include: Physical and Biological Sciences (minimum of two courses, 6 credits); Social Sciences and History (minimum of three courses, 9 credits); and, Humanities and Expressive Arts (minimum of three courses, 9 credits). In addition, students must take a minimum of four courses in Art and Architecture History, including: Art History 245, Renaissance & Baroque Art; Art History 260, The Modern Era; Art History 280, Asian Tradition; and Architecture 181, History of Architecture I or 182, History of Architecture II (or any art history elective, 200 level and above).

The university requirement of two terms in physical education must be met.

A candidate for the B.F.A. degree at Cornell is required to spend the last two terms of candidacy in residence at the university, subject to the conditions of the Cornell faculty legislation of November 14, 1962.

Students who transfer into the undergraduate degree program in art must complete a minimum of four terms in residence at Cornell and a minimum of 60 credits at the university, of which 30 credits must be taken in the Department of Art, including four terms of studio work. No student may study in absentia for more than two terms.

Rome Program

Students in good standing who have completed the requirements of the first two years of the curriculum are eligible for participation in the Rome Program. Students are admitted to the program by application

and review of their record. The Rome studio is offered by the Department of Art. Additional courses in art and architectural history, contemporary Italian culture, and Italian language are offered by other departments participating in the program.

Curriculum

Students are expected to take an average course load of 16 credits per semester during their four years. They must complete a minimum of four introductory courses in painting, sculpture, printmaking, and photography and four in drawing by the end of the third year. All studio courses may be repeated for elective credit.

First Year

<i>Fall Term</i>	<i>Credits</i>
110 Color, Form, and Space	3
121 Introductory Painting	3
141 Introductory Sculpture	3
151 Introductory Drawing	3
Elective (freshman writing seminar)	3
	15
<i>Spring Term</i>	
One of the following:	
131 Introductory Etching	
132 Introductory Graphics	
133 Introductory Lithography	
151 Introductory Drawing	3
161 Introductory Photography	3
Art history elective	3
Elective	3-4
	15-16

Second Year

<i>Fall Term</i>	
Art 2nd year studio	7-8
Art history elective	3
251 Drawing II	3
Elective(s)	3
	16-17

Spring Term

Art 2nd year studio	3-4
Art Studio (concentration)	4
Art history elective	3
Drawing elective	3
Elective(s)	3
	16-17

Third Year

<i>Fall Term</i>	
Art studio (concentration)	4
Issues of Contemporary Art	3
Electives	9-10
	16-17

Spring Term

Art studio (concentration)	4
Art history elective	3
Electives	9-10
	16-17

Fourth Year

Fall Term

Fourth-year studio concentration	6
Electives	11
	17

Spring Term

Senior thesis studio concentration	6
Electives	10-11
	16-17

Course Information

Most courses in the Department of Art are open to students in any college of the university who have fulfilled the prerequisites and who have permission of the instructor.

Fees are charged for all Department of Art courses. For fine arts majors the fee is \$40 each semester. Students from outside the department are charged \$20 a course. In addition, there are darkroom fees for all photography courses.

To take advantage of the special opportunities afforded by summer study, the department has developed several summer-only courses. Students wanting to satisfy Cornell degree requirements may petition to have these courses substituted for fall- or spring-term required courses.

Courses in Theory and Criticism

ART 110 Color, Form, and Space

Fall and spring. 3 credits. Fall enrollment limited to B.F.A. candidates.

Hours to be arranged. N. Daly.

A study of traditional and contemporary ways of drawing and painting. An analysis of color theory and pictorial space.

ART 311 Issues in Contemporary Art

Fall. 3 credits.

Hours to be arranged. S. Poleskie.

A seminar course in issues of contemporary art, including lectures by visiting artists.

ART 317 Art in Rome: Early Christian to the Baroque Age

Fall. 4 credits.

E. Parloto or visiting faculty.

General survey of the early Christian period to the fantastic vision of Piranesi in the eighteenth century. Special emphasis will be placed on the developments of the Renaissance and Baroque periods. Weekly lecture and field trips.

ART 318 Art in Rome: Renaissance in Rome and Florence

Spring. 4 credits.

Hours to be arranged. E. Parloto.

A direct knowledge of art in its historical context is the aim of this course. Open both to students interested in history and to those concentrating on the visual impact of art. Included are lectures and field trips.

ART 610 Seminar in Art Criticism

Fall or spring. 2 credits; may be repeated for credit. Four terms required for M.F.A. candidates.

Hours to be arranged. V. Kord.

Historical and modern critical opinions and their relation to problems in the theory of art are studied.

Studio Courses in Painting

ART 121 Introductory Painting

Fall, spring, or summer. 3 credits.

Hours to be arranged. Staff.

An introduction to the problems of artistic expression through the study of pictorial composition; proportion, space, shapes, and color as applied to abstract and representational design.

ART 123 Landscape Painting

Summer. 3 credits.

Class meets outdoors at selected sites in the Ithaca area. A different motif is explored each week. Pen, pencil, and water- or oil-based colors (optional) are the materials employed. Analysis and discussion of the landscape work of Corot, Cézanne, van Gogh, Seurat, and others are included.

ART 124 Painting and Drawing

Variable credit (maximum 5). Summer only.

A special summer abroad course with emphasis on artistic expression and techniques, for students at all levels of skill. Included will be a mixture of painting and drawing assignments, self-initiated projects, and drawing sessions with a live model.

ART 221 Painting II

Fall or spring. 4 credits. Prerequisite: Art 121 or permission of instructor.

Hours to be arranged. Staff.

A continuation of Art 121.

ART 321 Painting III

Fall. 4 credits. Prerequisite: Art 221 or permission of instructor.

Hours to be arranged. Staff.

Continued study of the principles of painting and the selection and expressive use of materials and media. Group discussions and individual criticism.

ART 322 Painting IV

Spring. 4 credits. Prerequisite: Art 321 or permission of instructor.

Hours to be arranged. Staff.

Continued study of the principles of painting and the selection and expressive use of materials and media. Group discussions and individual criticism.

ART 421 Painting V

Fall. 6 credits. Prerequisite: Art 322 or permission of instructor.

Hours to be arranged. Staff.

Further study of the art of painting through both assigned and independent projects executed in various media. Instruction through group discussions and individual criticism.

ART 422 Senior Thesis in Painting

Fall or spring. 6 credits. Prerequisite: Art 321 or 322 or permission of instructor.

Hours to be arranged. Staff.

Advanced painting project to demonstrate creative ability and technical proficiency.

ART 721-722, 821-822 Graduate Painting

721 and 821, fall; 722 and 822, spring. Credit as assigned. May be repeated for credit.

Limited to M.F.A. students in painting.

Staff.

Students are responsible, under staff direction, for planning their own projects and selecting the media in which they are to work. All members of the staff are available for individual consultation.

Studio Courses in Graphic Arts

ART 131 Introductory Intaglio

Fall, spring, or summer. 3 credits.

Hours to be arranged. E. Meyer.

A basic introduction to etching techniques, with emphasis on engraving, lift ground, relief printing, monotypes, and experimental techniques.

ART 132 Introductory Graphics

Fall, spring, or summer. 3 credits.

Hours to be arranged. S. Poleskie.

An introduction to the two-dimensional thought process and the language of vision. Students will explore design projects and the use of graphic materials, including collage, pochoir, and screen printing.

ART 133 Introductory Lithography

Fall, spring, or summer. 3 credits.

Hours to be arranged. G. Page.

The theory and practice of lithographic printing, using limestone block and aluminum plate. Basic lithographic techniques of crayon, wash, and transfer drawing are studied.

ART 231 Intaglio Printing II

Fall or spring. 4 credits. Prerequisite: Art 131 or permission of instructor.

Hours to be arranged. E. Meyer.

Continuation of the study and practice of methods of intaglio printing, with emphasis on techniques and color.

ART 232 Advanced Screen Printing (Book Arts)

Spring. 4 credits. Prerequisite: Art 132 and Art 161 or permission of instructor.

Hours to be arranged. S. Poleskie.

Students will expand their knowledge of screen printing to include photo stencil and printing on diverse materials such as cloth and plastic with the goal of producing a book or a portfolio of prints by the end of the semester.

ART 233 Lithography II

Fall or spring. 4 credits. Prerequisite: Art 133 or permission of instructor.

Hours to be arranged. G. Page.

Continuation of the study and practice of lithographic printing, with emphasis on color.

ART 331 Printmaking III

Fall or spring. 4 credits. Prerequisite: Art 231, 232, or 233 or permission of instructor.

Hours to be arranged. Staff.

Study of the art of graphics through both assigned and independent projects. Work may concentrate in any one of the graphic media or in a combination of media.

ART 332 Printmaking IV

Fall. 4 credits. Prerequisite: Art 331 or permission of instructor.

Hours to be arranged. Staff.

Continuation and expansion of Art 331.

ART 431 Printmaking V

Spring. 6 credits. Prerequisites: Art 332 or permission of instructor.

Hours to be arranged. Staff.

Further study of the art of graphics through both assigned and independent projects executed in various media. Instruction through group discussions and individual criticism.

ART 432 Senior Thesis in Printmaking

Fall or spring. 6 credits. Prerequisite: Art 331 or 332 or permission of instructor.

Hours to be arranged. Staff.

Advanced printmaking project to demonstrate creative ability and technical proficiency.

ART 731-732, 831-832 Graduate Printmaking

731 and 831, fall; 732 and 832, spring. Credit as assigned; may be repeated for credit.

Limited to M.F.A. candidates in graphic arts.

Prerequisite: permission of instructor.

Staff.

Students are responsible, under staff direction, for planning their own projects and selecting the media in which they will work. Members of the staff are available for consultation; discussion sessions of work in progress are held.

Studio Courses in Sculpture

ART 141 Introductory Sculpture

Fall, spring, or summer. 3 credits.

Hours to be arranged. Staff.

A series of studio problems introduce the student to the basic considerations of artistic expression through three-dimensional design, i.e., modeling in Plasteline, building directly in plaster, casting in plaster, and constructing in wood and metal.

ART 141 Introductory Sculpture: Figurative Sculpture

Summer. 3 credits.

Hours to be arranged. R. Berotia.

This course will introduce students to the figure by working directly from observation. Students will learn the basics of modeling in clay, making plaster molds, and casting in plaster. Daily hands-on demonstrations and slide lectures will provide a historical overview. Open enrollment.

ART 141 Introductory Sculpture: Metal Fabrication and Bronze Casting

Summer. 3 credits.

Hours to be arranged. G. S. White.

This course will introduce students to materials, techniques, and processes associated with metal fabrication and bronze casting. Through a series of assignments, students will explore the unique character of metals.

ART 241 Sculpture II

Fall or spring. 4 credits. Prerequisites: Art 141 or permission of instructor.

Hours to be arranged. Staff.

Various materials, including clay, plaster, wood, stone, and metal, are used for exercises involving figurative modeling, abstract carving, and other aspects of three-dimensional form and design. Beginning in the second year, students are encouraged to explore the bronze casting process. The sculpture program, which is housed in its own building, contains a fully equipped bronze casting foundry.

ART 341 Sculpture III

Fall. 4 credits. Prerequisite: Art 241 or permission of instructor.

Hours to be arranged. Staff.

Continued study of the principles of sculpture and the selection and expressive use of materials and media. Group discussions and individual criticism.

ART 342 Sculpture IV

Spring. 4 credits. Prerequisite: Art 241 or permission of instructor.

Hours to be arranged. Staff.

Continuation and expansion of Art 341.

ART 441 Sculpture V

Fall. 6 credits. Prerequisite: Art 342 or permission of instructor.

Hours to be arranged. Staff.
Further study of the art of sculpture through both assigned and independent projects executed in various media. Instruction through group discussions and individual criticism.

ART 442 Senior Thesis in Sculpture

Fall or spring. 6 credits. Prerequisite: Art 341 or 342 or permission of instructor.

Hours to be arranged. Staff.
Advanced sculpture project to demonstrate creative ability and technical proficiency.

ART 741-742, 841-842 Graduate Sculpture

741 and 841, fall; 742 and 842, spring. Credit as assigned. May be repeated for credit.

Limited to M.F.A. students in sculpture. Staff.

Students are responsible, under staff direction for planning their own projects and selecting the media in which they are to work. All members of the staff are available for individual consultation. Weekly discussion sessions of works in progress are held.

Studio Courses in Photography

Darkroom fees for all photography courses

Fee for B & W courses: \$70.00

Fee for color courses: \$150.00

Fee for an additional B & W course taken the same term: \$25.00

Fee for an additional color course taken the same term: \$105.00

Out-of-college students—\$10 per term course fee.

ART 161 Photography I (also Architecture 251)

Fall, spring, or summer. 3 credits.

Hours to be arranged. Staff.
A basic lecture-studio course in black and white photography for beginners. Emphasis is on basic camera skills, darkroom techniques, and understanding of photography imagery.

[ART 166 Introduction to Photography for Non-Majors]

Not offered 1993-94.]

ART 167 Photography

Variable credit (maximum 5). Summer only. A special summer-abroad course with emphasis on both the techniques and aesthetics of black-and-white photography, for students at all levels of skill. Initial photographic assignments will be followed by other projects of the student's own choosing.

ART 168 Black-and-White Photography

Summer. 3 credits.
Intended for students at all levels, from introductory to advanced. Emphasis on camera skills, darkroom techniques, and the content of black-and-white photographic imagery.

ART 169 Color Photography

Summer. 3 credits.
Intended for students at all levels, from introductory to advanced. Emphasis on camera skills, darkroom techniques, and the content of color photographic imagery.

ART 261 Photography II (also Architecture 351)

Fall, spring, or summer. 4 credits. Prerequisites: Art 161 or Architecture 251, or permission of instructor.

Hours to be arranged. Staff.
A continuation of Photography I concentrating on black and white photographic processes, history and theory of creative practice, and individual projects.

ART 263 Color Photography

Fall, spring, or summer. 4 credits. Prerequisites: Art 161 or permission of instructor.

Hours to be arranged. Staff.
A studio course in color photography with emphasis on camera skills, darkroom techniques, and the content of color photography.

ART 264 Photo Processes

Fall or spring. 4 credits. Prerequisite: Art 161 or permission of instructor.

Hours to be arranged. Staff.
A studio course in alternate and nonsilver photographic processes. Emphasis is on camera skill, basic techniques and processes, image content, and creative use of photo processes.

ART 265 Studio Photography

Fall or spring. 4 credits. Prerequisite: Art 161 or permission of instructor.

Hours to be arranged. Staff.
A course in the use of medium- and large-format cameras that explores technique, lighting, and the use of larger-format cameras for personal expression both in the studio and outdoors.

[ART 361 Photography III]

Fall, spring, or summer. 4 credits. Prerequisite: Art 161, 261, or permission of instructor. Not offered 1993-94.

Hours to be arranged. Staff.
Continued study of creative use of photography, with emphasis on specialized individual projects.]

[ART 362 Photography IV]

Fall, spring, or summer. 4 credits. Prerequisite: Art 161, 261 or permission of instructor. Not offered 1993-94.

Hours to be arranged. Staff.
Continued study of creative use of photography, with emphasis on specialized individual projects.]

ART 379 Independent Studio

Summer. Credit by arrangement.

Hours by arrangement. Staff.
Students who have the interest and ability to progress beyond the problems of their particular course may register for additional credits. Students plan courses of study or projects that must meet the approval of the instructors they have selected to guide their progress and criticize the results. A course fee may be charged.

ART 461 Photography V

Fall. 6 credits. Prerequisite: Art 361 or permission of instructor.

Hours to be arranged. Staff.
A studio course intended for photography majors and other qualified students.

ART 462 Senior Thesis in Photography

Fall or spring. 6 credits. Prerequisite: Art 461 or permission of instructor.

Hours to be arranged. Staff.
A studio course intended for photography majors and other qualified students. Ad-

vanced photography project to demonstrate creative ability and technical proficiency.

ART 751-752, 851-852 Graduate Photography

751 and 851, fall; 752 and 852, spring. Credit as assigned. May be repeated for credit. Limited to M.F.A. students in photography. Prerequisite: permission of instructor.

Staff.
Students are responsible, under staff direction, for planning their own projects and selecting the media in which they will work. Members of the staff are available for consultation. Discussion sessions of work in progress are held.

Studio Courses in Drawing**ART 151 Introductory Drawing**

Fall, spring, or summer. 3 credits.

Hours to be arranged. Staff.
A basic drawing course in the study of form and techniques. Contemporary and historical examples of figure, still life, and landscape drawing are analyzed in discussion.

ART 158 Conceptual Drawing

Summer. 3 credits.

Emphasis on drawing from the imagination. The generation of ideas and their development in sketches is stressed. The intent is not to produce finished art but rather to experience a series of problems that require image and design concepts different from those of the artist working directly from nature.

ART 159 Life and Still-Life Drawing

Summer. 3 credits.

The human figure and still life are studied both as isolated phenomena and in relation to their environment. Focuses on helping the student observe and discover.

ART 251 Drawing II

Fall or spring. 3 credits. Prerequisites: Art 151 or permission of instructor.

Hours to be arranged. Staff.
A continuation of Art 151 but with a closer analysis of the structure of the figure and a wider exploitation of its purely pictorial qualities.

[ART 351 Drawing III]

Fall or spring. 3 credits. Prerequisite: Art 251. Not offered 1993-94. Staff].

ART 352 Anatomy for Artists

Spring. 3 credits. Prerequisites: Art 151, 159, and 251 or permission of instructor.

Hours to be arranged. S. Taft.
Develops basic understanding of the structure of the human figure as it is relevant to artists through an in-depth study of the skeleton and muscle-tendon system. Focuses on improving understanding and skill in design and observation, as well as gaining an understanding of how the materials may be relevant to making art through the study of works by the masters.

Graduate Thesis**ART 712 Graduate Thesis**

Spring. Credit as assigned.

Staff.
For graduate students in their last term in the programs in painting, sculpture, printmaking, and photography.

Special Studio Courses

ART 171 Computer Art I

[Fall], spring, or summer. 3 credits.

Hours to be arranged. S. Bowman.
A studio course in the use of the computer as a tool for making art. Introduction to microcomputers and various graphic programs, image grabbing, and 2-d animation.

ART 172 Computer Art II

Fall, spring, or summer. Prerequisite: Art 171 or permission of instructor.

Hours to be arranged. S. Bowman.
A continuation of Art 171, with introduction to graphics programs in multimedia, on Macintosh II systems. Emphasis is on combining graphics, grabbed imagery, with 2d and 3d animation and sound, with output to video.

ART 372 Special Topics in Art Studio

Fall, spring, or summer. Variable credit.

Hours to be arranged. Staff.

An exploration of a particular theme or project.

ART 372 Special Topics in Art Studio: The Artist's Book

Summer. 3 credits. Limited to 12-15 students. No previous art course required.

M-F 3-5. L. S. Snyder.

A studio course that investigates the expanding genre of artist's books and one-of-a-kind books. Assignments guide the student's exploration of elements of the book: page, type, scale, covers, and dynamics. Projects involve a variety of structures, media, and binding techniques. A valuable course for artists, architects, poets, and others who are curious about the book form.

ART 400 Rome Studio

Fall or spring. 4 credits. Prerequisite: permission of instructor.

Staff.

The content for the Rome studio will be determined by the instructor. Emphasis will be divided between work accomplished in the studio and work executed outdoors in the environs of Rome. Media will consist primarily of painting, drawing, sculpture, and photography, or those assigned by the instructor.

ART 472-476 Independent Studio

Fall, spring, or summer. Variable credit (maximum, 6). Students may register for two studios in a semester. May be repeated for credit. Prerequisite: written permission of instructor.

Department staff.

ART 472 Independent Studio - Painting

ART 473 Independent Studio - Graphics, Lithography, Intaglio

ART 474 Independent Studio - Sculpture

ART 475 Independent Studio - Drawing

ART 476 Independent Studio - Photography

ART 481 Pre-Thesis/Multi Media

Fall or spring. 6 credits. Prerequisite: permission of instructor.

Hours to be arranged. Staff.

Students are responsible, under staff direction, for planning their own projects and selecting the media in which they will work. The projects should reflect experiences gained by exploring and combining various media including those taken in studio courses outside the department.

ART 482 Senior Thesis/Multi Media

Fall or spring. 6 credits. Prerequisite: 481 or permission of instructor.

Hours to be arranged. Staff.

Students are responsible, under staff direction, for planning their own projects and selecting the media in which they will work. The projects should reflect experiences gained by exploring and combining various media including those taken in studio courses outside the department.

CITY AND REGIONAL PLANNING

R. S. Booth, chair; S. Baugher, L. Beneria, S. Christopherson, P. Clavel, J. Cody, S. Czamanski (emeritus), M. Drennan, J. F. Forester, W. W. Goldsmith, W. Isard, B. G. Jones, B. Kelly (emeritus), D. Lewis, P. Olpadwala, K. C. Parsons, J. W. Reps (emeritus), S. Saltzman, S. W. Stein (emeritus), M. A. Tomlan, R. T. Trancik, T. Vietorisz (visiting), M. Wilder

The department offers several programs of study at both the undergraduate and graduate levels.

The Undergraduate Program in Urban and Regional Studies

The Program in Urban and Regional Studies (URS) is a four-year academic program aimed at assessing the problems of human communities and regions. Students graduating from the program receive a Bachelor of Science degree. The program is intended to provide both an excellent liberal arts education and a strong concentration of studies respecting urban and regional issues. The urban and regional studies courses in the program are designed to provide students a broad understanding of relevant issues, ability to assess those issues, and technical analysis skills. The URS Program is truly interdisciplinary, requiring students to confront urban and regional problems from a variety of perspectives and through the analytic tools of different disciplines.

Basic Degree Requirements (Applicable through the Class of 1995)

- 1) General education (during the first four terms)
 - a. Freshman writing seminars: 6 credits
 - b. Foreign language: qualification in one foreign language
 - c. An approved course sequence (minimum of 6 credits) in each of the five categories below: 30 credits
 1. a. Biological sciences or
b. Physical sciences
 2. a. Social sciences (other than economics) or
b. History
 3. a. Humanities or
b. Expressive arts or design arts
 4. Mathematics
 5. Economics
- 2) Major concentration: 50 to 52 credits
 - a. Specific course requirements (38 to 40 credits)

CRP 100, The American City

CRP 101, The Global City

CRP 314, Planning, Power, and Decision Making, or Government 311, Urban Politics

CRP 315, The Progressive City

CRP 320, Introduction to Statistical Reasoning for Urban and Regional Analysis

CRP 321, Introduction to Quantitative Methods for the Analysis of Public Policy

CRP 361, Seminar in American Urban History, or History 332 or 334, The Urbanization of American Society

CRP 400, Introduction to Urban and Regional Theory

CRP 401, Urban Political Economy

CRP 480, Environmental Politics

CRP 481, Principles of Spatial Design and Aesthetics

CRP 482, Urban Land Use Concepts

b. Directed electives (related to urban and regional studies): 12 credits (at least 6 credits to be taken outside CRP)

3) Free electives: 26 to 28 credits

a. 12 credits during first four terms

b. 14 to 16 credits during last four terms

Required courses for graduation: 34

Required Credits: 120

The university requirement of two terms of physical education must be met during the first two terms.

Basic Degree Requirements (beginning with students in the Class of 1996 and thereafter)

URS students who enter after the fall 1992 semester have to complete the following requirements for graduation:

Requirements for Graduation: URS requirements include (1) eight semesters of residence, (2) 120 credits, (3) two freshman seminars, (4) qualification in one foreign language, (5) four groups of distribution requirements, (6) required courses for major, (7) area requirements for major, (8) free electives, (9) a minimum of 34 courses. The university requires students to complete two semesters of physical education.

1) General education

a. Freshman writing seminars: 2 courses

b. Foreign language: 3 courses or qualification in one foreign language

c. Distribution Requirements: 9 courses

Students must take a total of nine courses for the distribution requirement: four courses (of three or more credits each) from Groups 1 and 2, at least two of which are from Group 1, and at least one of which is from Group 2; five courses from Groups 3 and 4, with at least two in each group and two in the same department. No single course may satisfy more than one distribution requirement. URS students must utilize the College of Arts and Sciences designation of specific courses that may be taken to meet the requirements for groups 1-4.

Group 1: Physical and biological sciences (2-3 courses required)

Group 2: Quantitative and formal reasoning (1-2 courses required)

Group 3: Social sciences and history
(2–3 courses required)

Group 4: Humanities and the arts
(2–3 courses required)

Advanced Placement Credit

Students may apply up to two courses of approved advanced placement credit in calculus, computer science, and science toward satisfaction of the distribution requirement in Groups 1 and 2 above, provided that they complete at least one science course during their undergraduate career. They may apply no advanced placement credit toward satisfaction of the distribution requirement in Groups 3 and 4. Grades of S-U courses applied to distribution requirements are acceptable.

2. Required Courses for Major: 5 courses

CRP 100: The American City

CRP 101: The Global City: People, Production, and Planning in the Third World

CRP 320: Introduction to Statistical Reasoning for Urban and Regional Analysis (statistics course)

Micro Economics course (at least 3 credits, from approved list)

Architecture course (at least 3 credits, from approved list)

Approved List of Micro Economics and Architecture Courses

Micro Economics:

CE&H 110: Introductory Micro Economics

CE&H 210: Intermediate Micro Economics

ECON 101: Introduction to Micro Economics

ECON 203: Micro Economics

ECON 313: Intermediate Micro Economics

Architecture:

ARCH 131: An Introduction to Architecture I

ARCH 132: An Introduction to Architecture II

ARCH 181: History of Architecture I

ARCH 182: History of Architecture II

3. Area Requirements for Major: 11 courses

A. Students must take one listed CRP course in each of the following 6 areas: Design, Economics, Environment, History, Politics/Policy, Quantitative Analysis

a. Design

CRP 415: Gender Issues in Planning and Architecture

CRP 481: Principles of Spatial Design and Aesthetics

CRP 482: Urban Land Use Concepts

b. Economics

CRP 218: Economics of Gender

CRP 400: Introduction to Urban and Regional Theory

CRP 401: Seminar in Urban Political Economy

CRP 404: Urban Economics

CRP 417: Industrial Restructuring: Implications for State and Local Policy

NOTE: This requirement *may not* be satisfied with the same course taken to complete the micro-economics course requirement under B.

c. Environment

CRP 387: Urbanization and the Environment

CRP 451: Environmental Law

CRP 480: Environmental Politics

d. History

CRP 261: Urban Archaeology

CRP 360: Pre-Industrial Cities and Towns of North America

CRP 361: Seminar in American Urban History

CRP 461: Methods of Archival Research

CRP 462: The American Planning Tradition

e. Politics/Policy

CRP 314: Planning, Power, and Decision Making

CRP 315: The Progressive City

CRP 363: American Indians, Planners, and Public Policy

CRP 382: Urban Housing: Sheltered vs. Unsheltered Society

CRP 413: Planning and Political Economy I

CRP 414: Planning and Political Economy II

CRP 448: Social Policy and Social Welfare

f. Quantitative Analysis

CRP 321: Introduction to Quantitative Methods for the Analysis of Public Policy

CRP 421: Introduction to Computers in Planning

A. Students must take any additional 5 CRP courses (of at least 3 credits each)

4. Free Electives: 6–9 courses

5. Physical Education (2 terms of PE)

Required courses for graduation: 34

Required credits: 120

Honors Program

Each year a small number of well-qualified junior-year students will be accepted into the honors program. Each honors student will develop and write a thesis under the guidance of his or her faculty adviser. There will be a seventy-five-page limit on each honors thesis.

Off-Campus Opportunities

Cornell-in-Washington Program. Students in good standing may be eligible to earn degree credits in the Cornell-in-Washington program through course work and an urban-oriented internship in Washington, D.C. Students may work as interns with congressional offices, executive-branch agencies, interest groups, research institutions, and other organizations involved in the political process and public policy. Students also select one or two other seminars from such fields as government, history, economics, human development and

family studies, architectural history, and agricultural economics. All seminars are taught by Cornell faculty members and carry appropriate credit toward fulfillment of major, distribution, and other academic requirements.

Cornell Abroad. Cornell encourages qualified undergraduates to study abroad in the belief that exposure to foreign cultures is an important component of a good education. In an increasingly interdependent world, the experience of living and learning in a foreign country is invaluable. With this in mind, the university is continuing to develop study abroad opportunities. Current programs are available in Great Britain, Spain, and Germany. Opportunities in Asia, the Mideast, and France should be forthcoming. The department encourages its students to explore these opportunities.

Cornell-in-Rome Program. The College of Architecture, Art, and Planning has a teaching facility in Rome located in the sixteenth-century Palazzo Massimo. Students in good standing are eligible to earn degree credits through course work undertaken with Cornell faculty assigned to Rome and with accredited instructors. Courses are available in areas of urban development, regional development, and architecture and art.

Research and fieldwork. Students are welcome to work with department faculty members on research or other opportunities that are appropriate to their particular interests. Fieldwork and community-service options also exist for students in the Urban and Regional Studies Program.

Additional Degree Options

Linked degree options. Urban and regional studies students have the opportunity to earn both a Bachelor of Science degree and a Master of Regional Planning (M.R.P.) degree in a fifth year of study. Ordinarily the professional M.R.P. degree requires two years of work beyond that for the bachelor's degree. This arrangement shortens that time by about one year. A minimum of 30 credits and a master's thesis or thesis project are required for the M.R.P. degree. Students apply to the Graduate School, usually in the senior year.

Dual degree option. A student in the Cornell College of Arts and Sciences currently can earn both a B.A. in an arts college major, plus a B.S. in urban and regional studies in a total of five years. Special requirements have been established for this dual degree program. Cornell students interested in pursuing the dual degree program should contact either the director of the Urban and Regional Studies Program or the appropriate dean of the College of Arts and Sciences for further information.

Admissions Requirements and Procedures

Among the most important criteria for admission to the Urban and Regional Studies Program are intellectual potential and commitment—a combination of ability, achievement, motivation, diligence, and use of educational and social opportunities. Nonacademic qualifications are important as well. The department encourages students with outstanding personal qualities, initiative, and leadership ability. Above all, the department seeks students with a high level of enthusiasm and depth of interest in the study of urban and regional issues. Applicants must complete a university admission application.

Transfer Students

In most cases, transfer applicants should no longer be affiliated with a high school and should have completed no fewer than 12 credits of college or university work at the time of application. A high school student who has completed graduation requirements at midyear and is taking college courses for the rest of the academic year should apply as a freshman. Prospective candidates who believe that their circumstances are exceptional should consult with the director of admissions in the Cornell division of interest to them before filing an application.

Forms for transfer application and financial aid are available from the Cornell University Office of Admissions, 410 Thurston Avenue, Ithaca, New York 14850-2488. Official transcripts of all high school and college work must be submitted along with SAT or ACT scores and letters of recommendation.

It is desirable for prospective transfers to have taken at least 6 credits in English. In addition, students should have taken basic college-level courses distributed across the natural and social sciences, humanities, and mathematics. Those applicants whose previous course work closely parallels the general education portion of the urban and regional studies curriculum will have relative ease in transfer. However, as there are no specific requirements for transfer, students with other academic backgrounds, such as engineering, architecture, fine arts, management, and agriculture, are eligible to apply.

Although an interview is not required, applicants are urged to visit the campus. Applicants who want further information regarding urban and regional studies may contact Professor Richard S. Booth, Program Director, Urban and Regional Studies, Cornell University, 106 West Sibley Hall, Ithaca, New York 14853-6701 (telephone: 607-255-4613).

The Graduate Program in City and Regional Planning

Planning seeks to guide the development of the economic, social, natural, and built environments so that the needs and aspirations of all people may be better satisfied.

The major concentrations of course work in city and regional planning are in the following areas:

Built environment and urban development planning is concerned with physical facilities; the social, economic, and environmental forces that affect their design; and the process of development, plan making and administration.

History and historic preservation planning is a special program of study preparing students for work in history, analysis, and preservation of buildings, urban environments, and neighborhoods, including downtown business areas.

Regional planning and regional science are concerned with socioeconomic issues and functional planning at the regional level, the forces that generate economic growth and social development, and the ways in which resources can best be used.

Local and regional economic development is concerned with understanding and influencing how economic change may be harnessed to the benefit of communities, counteracting plant closings and more general regional

decline and stimulating more equitable programs of socioeconomic change and development.

International planning offers a broad range of courses in international economic development, development planning, and political economy.

Quantitative methods and policy analysis courses are offered to prepare planners and researchers for a variety of situations and problems.

Complementing these concentrations, planning theory and political economy courses examine the organizational and planning processes and the political and economic conditions in which planning and international development operate.

Several graduate degrees are offered: the Ph.D.; the Master of Regional Planning (M.R.P.), for a two-year program; the Master of Arts (M.A.) in historic preservation planning, for a two-year program; and, in special cases, the Master of Professional Studies (International Development) [M.P.S.(I.D.)], for the twelve-month international planning program.

Off-Campus Opportunities

Rome Program. Graduate students have the opportunity to spend one or two semesters in Rome, studying at Cornell's center at the Palazzo Massimo. Instruction is given by Cornell professors-in-residence and by other faculty. The program is structured to include work assignments in one of the international development organizations headquartered in Rome.

Course Information

Most courses in the Department of City and Regional Planning are open to students in any college of the university who have fulfilled the prerequisites and have the permission of the instructor.

The department attempts to offer courses according to the information that follows. However, students should check with the department at the beginning of each semester for late changes.

Undergraduate Program in Urban and Regional Studies

CRP 100 The American City

Fall. 3 credits.

M. Wilder.

An introductory course on the evolution of urban problems and opportunities facing the majority of this country's population as we approach the last decade of the twentieth century. Readings, discussions, and brief papers exploring topics ranging from suburban development to central city poverty, from environmental threats to downtown revitalization, and from municipal finance to the new position of women in the urban economy.

CRP 101 The Global City: People, Production, and Planning in the Third World

Spring. 3 credits.

W. W. Goldsmith.

A critical look at the physical and social development of giant cities in the Third World. Their origins, roles, contributions, and shortcomings are examined. Their place in world political economy is evaluated. Policy

prescriptions for their principal problems are discussed.

CRP 108 FWS: Environment and Society: The Delicate Balance

Fall. 3 credits.

J. Cody.

This freshman writing seminar addresses the delicate balance that must be maintained between societal needs and demands and environmental quality. It uses several important texts that examine and challenge society's widespread and deep-rooted tendencies to ignore the social, economic, and environmental consequences of degrading the natural environment. Students work extensively on improving writing skills.

CRP 109 FWS: In Search of American Cities

Spring. 3 credits.

M. Wilder.

An unusual course structure is used to give students broad exposure to ongoing changes in the social, political, economic, and physical character of U.S. cities. Each week students will "visit" a different city by way of readings, oral presentations, discussions, and brief papers that touch on major aspects of the city's economic, social, and political history; the city's physical character and regional context; and recent planning or policy issues.

CRP 218 Economics of Gender

Spring. 3 credits. Prerequisite: permission of instructor.

L. Beneria.

The emphasis in this course will be on the economic aspects of women and work. What are the consequences of women's concentration in reproductive work? What economic role does domestic work play within the larger economy? What are the consequences of occupational segregation by gender? Why is the wage gap between men and women not disappearing? What is the role of discrimination? What is the condition of women in other countries? Throughout the course we will examine different analytical frameworks and distinguish between different feminist perspectives dealing with those questions.

CRP 261 Urban Archaeology

Fall. 3 credits.

S. Baugher.

Urban archaeologists study both urban development and the pre-urban past that lies within the present boundaries of cities. Thus not all archaeology in a city is of a city. While several centuries of urban development are often found at the upper level of archaeological sites, lower horizons often reveal cultural diversity. This course will examine the methods and unique political and economic problems associated with excavating in urban environments while exploring the commercial, industrial, residential, and transportation-related sites found in modern cities. An introductory course, designed for undergraduates.

CRP 271 Introduction to African Development (also ASRC 271)

Fall or spring. 3 credits.

Staff.

A survey of development problems in Sub-Saharan Africa, including the importance of the natural resource base, the policy and institutional factors affecting development, and the human resource potential in the continent.

CRP 314 Planning, Power, and Decision Making

Fall. 3 credits.
Staff.

This seminar examines various bases of political and professional power. We ask, What do professionals who want to serve the public need to know about power and decision-making processes in the institutional settings in which they operate? How and why can professionals make a difference when facing problems characterized by great complexity and severe inequalities among affected groups?

CRP 315 The Progressive City

Spring. 3 credits.
P. Clavel.

A review of attempts to incorporate the interest of working-class and poor constituencies through majority control of local governments. Topics to be covered include the role of the city in class formation; historical perspectives on urban political administration; contemporary populist, socialist, and progressive urban governments; and the search for an economic basis for progressive reforms.

CRP 320 Introduction to Statistical Reasoning for Urban and Regional Analysis

Fall. 3 credits.
S. Saltzman.

An introduction to the role and use of quantitative methods in the study of urban and regional issues. Emphasis will be on statistical and related computer methods for the formulation, analysis, and testing of hypotheses and models of social, economic, and physical phenomena of cities and regions. This course will cover applicable methods in probability, descriptive statistics, estimation, hypothesis testing, and regression.

CRP 321 Introduction to Quantitative Methods for the Analysis of Public Policy

Spring. 3 credits.
M. Drennan.

An introduction to the role and use of quantitative methods in the study of urban and regional issues. This course will focus on various types of models commonly used to analyze urban and regional policy, including techniques for decision analysis, linear programming, cost-benefit analysis, simulation, and regression models, among others. Strengths and weaknesses of those methods will also be considered.

CRP 360 Pre-Industrial Cities and Towns of North America (also CRP 666)

Fall. 3 credits. S-U grades optional.
S. Baugher.

The pre-industrial approaches to the founding, design, and development of towns and cities in North America until 1815 demonstrate how various American Indian civilizations as well as diverse European cultures have each brought their perspectives to the organization of town and city living. American Indian case studies will include Mayan and Aztec cities, the city of Cahokia, and the towns of the Pueblos, Creeks, and Iroquois. The experiences of Europeans in North America will include Spanish, French, Dutch, and English. This course is a recommended complement to CRP 361.

CRP 361 Seminar in American Urban History (also CRP 662)

Spring. 3 credits. Prerequisite: permission of instructor.

J. Cody.

Seminar in the historical evolution of the American city. Emphasis on factors in urban growth, the process of urbanization, the urban reform movement, and intellectual and social responses to the city.

CRP 363 American Indians, Planners, and Public Policy (also CRP 547)

Spring. 3 credits. S-U grades optional.
S. Baugher.

Contemporary American Indian people, their reservations, and their cultural heritages are all affected, often adversely, by decisions made by public agencies and private enterprise. To benefit non-Indian cities and economic growth, reservations are sometimes flooded, polluted, strip-mined, and deforested. Archaeological sites and burial grounds are often destroyed. The central focus of the course is how to address urban and regional problems without imperiling the cultural survival of minorities.

CRP 382 Urban Housing: Sheltered vs. Unsheltered Society (also CRP 582)

Fall. 4 credits.
M. Wilder.

Homelessness is the latest in a continuing list of terms to describe unmet housing needs. To understand how and why such needs persist, even in good economic times, one must examine the nature of interactions between housing policies and housing market forces. This course examines the complex interaction of public and private actions in the development and redevelopment of urban housing. More specifically, the course seeks to investigate the many ways in which private and public policy decisions determine which groups in society will have access to housing. This course is appropriate for students with an interest in urban housing and a background in any of the following areas: urban economics, urban sociology, anthropology, history, or geography. The course will consist of lectures, a wide variety of readings, and guest speakers. Students will be evaluated on the basis of class discussions, two exams, a 15–20 page paper, and an oral presentation.

CRP 400 Introduction to Urban and Regional Theory

Fall. 4 credits. Open to juniors and seniors.
B. G. Jones.

Introductory review of theories dealing with the spatial distribution of population and economic activity, drawn from various social science disciplines such as geography, economics, and sociology. Review of recent research dealing with such topics as population distribution, migration, location of industry and economic activity, and the spatial organization of urban and regional social systems.

CRP 401 Seminar in Urban Political Economy

Spring. 4 credits. Prerequisites: introductory economics or sociology; for URS students, CRP 400 also.

P. Olpadwala.

The world economy, the global city, and social change. Population, technology, and work in industrial and developing countries. Race, ethnicity, and nationality. Profits, subsistence, and poverty. Students may read

and direct discussions on outstanding texts, write book reviews, and prepare brief reports.

CRP 404 Urban Economics (also CRP 604)

Fall or spring. 4 credits. Prerequisite: basic economics.

M. Drennan.

Urban phenomena are analyzed from an economic point of view. Areas examined include economic aspects of urbanization processes and policies, determinants of urban growth and decline, urban land and housing markets, urban transportation, and urban public services. Some time will be spent in discussing problems of cities in developing countries.

[CRP 415 Gender Issues in Planning and Architecture]

Spring. 3 or 4 credits. Not offered 1993–94.]

CRP 417 Industrial Restructuring: Implications for State and Local Policy (also CRP 517)

Fall. 4 credits.

S. Christopherson.

A basic introduction to new issues arising from the way in which national and international economic shifts are affecting diverse United States localities. The course will focus on intra-industry restructuring, the location of economic activities, and state and local economic policy. Cases will be drawn from a variety of industries and national situations, with specific application to New York and other Northeast locations.

CRP 421 Introduction to Computers in Planning (also CRP 522)

Fall. 4 credits.

Staff.

Students learn how to use microcomputers and software packages in the planning and problem-solving processes. Included are word processing, spreadsheets, mapping, and other types of packages that are useful for other classes and for professional work in the field. (WordPerfect, Lotus 1-2-3, dBase and MacGIS are examples of packages that have been taught in previous years.)

CRP 442 The Sociology of Science (also Biology and Society 442)

Fall. 4 credits.

T. J. Pinch.

A view of science less as an autonomous activity than as a social institution. We will discuss such issues as controversies in science, textual analysis, gender and the social shaping of scientific knowledge.

[CRP 448 Social Policy and Social Welfare (also CRP 548)]

Spring. 4 credits. Not offered 1993–94.]

CRP 451 Environmental Law (also CRP 551)

Fall. 4 credits.

R. S. Booth.

An introduction to how the legal system handles environmental problems. Study of federal statutes such as the National Environmental Policy Act, the Clean Air Act, and the Clean Water Act, and of important judicial decisions that have been handed down under federal environmental statutes and regulations. Discussion of environmental law topics from a policy management perspective. This course is designed for undergraduate and graduate students interested in urban issues, planning, natural resources, government, environmental engineering, law, business, architecture,

landscape architecture, etc. Course assignments for graduate students will differ in some aspects from those for undergraduates.

CRP 457 Community Service Fieldwork

Fall or spring. 4 credits variable.

Faculty.

Undergraduate students work under the direction of a faculty member in the CRP department on a project that assists a public or nonprofit organization. Projects will involve urban and regional issues as defined by a "client" and agreed upon by the faculty member.

[CRP 461 Methods of Archival Research]

Fall. 3 credits. Not offered 1993-94.]

CRP 480 Environmental Politics

Spring. 4 credits.

R. S. Booth.

Examines the politics of public decisions affecting the environment. Focuses on the roles played by different political actors, the powers of various interest groups, methods for influencing environmental decisions, and the political and social impacts of those decisions.

CRP 481 Principles of Spatial Design and Aesthetics (also CRP 581 and Landscape Architecture 480)

Fall. 3 credits. Course enrollment is restricted to planning and landscape architecture students unless special permission is granted by instructor.

R. T. Trancik.

A lecture course that introduces the spatial and visual design vocabularies of cities. Aesthetic principles and theories of design are investigated for different types of urban spaces drawn from a variety of international examples, historic and modern. Included in the course are design methods and applications in the contemporary urban context of Europe and North America.

CRP 482 Urban Land Use Concepts

Fall. 3 credits.

K. C. Parsons.

Explorations of the use of land in urban areas, with an emphasis on the experience of North American cities. The course reviews use types, use characteristics, and use relationships in terms of conflicting social and economic demands. Concepts of organizing urban space in the past and present are reviewed. Physical planning, site planning and urban design issues are discussed.

CRP 490 Student-Faculty Research

Fall or spring. 1-4 credits. Limited to undergraduate students in the Urban and Regional Studies Program. S-U grades only.

Hours to be arranged. Staff.

Research, reading, and/or writing project in which a student and faculty member choose a topic related to urban and regional studies.

CRP 492 Honors Thesis Research

Fall or spring. 4 credits. Limited to Urban and Regional Studies Program majors who have been selected as honor students by the department faculty.

Hours to be arranged. Staff.

Each selected student works with his or her thesis adviser.

CRP 493 Honors Thesis Writing

Fall or spring. 4 credits. Prerequisite: Completion of CRP 492.

Hours to be arranged. Staff.

Each selected student works with his or her thesis adviser.

CRP 495 Special Topics

Fall or spring. 3 credits. Hours to be arranged.

Staff.

CRP 495.16 History of China in Modern Times (also HIST 294)

Spring. 3 credits.

J. Cody.

Introductory course that has no prerequisites and assumes no prior knowledge of Chinese history. Its requirements include the writing of two short papers and taking two 50-minute examinations (one at midsemester and one during final examination period).

CRP 497 Supervised Readings

Fall or spring. Variable 4 credits. Limited to upperclass students. Prerequisite: permission of instructor.

Staff.

Graduate Courses and Seminars

Courses numbered from 500 to 599 and 600 to 699 are generally considered introductory or first-year courses; those numbered from 700 to 799 and 800 to 899 are generally considered more advanced. Upperclass undergraduate courses are numbered from 300 to 499. (Undergraduate students with the necessary prerequisites and permission of the instructor may enroll in courses numbered 500 and above.)

CRP 500 Urban and Regional Theory

Fall. 4 credits.

W. W. Goldsmith.

A review of attempts by the various social sciences to understand the contemporary city and its problems, particularly as seen by planners. Material is drawn from urban and regional economics, human ecology, urban sociology, psychology, anthropology, and geography in order to explain the location, size, form, and functioning of cities. Traditional and contemporary critical theory is examined as it applies to physical, social, and economic problems of the modern city. Major texts will be read, criticized, and discussed in seminars.

CRP 511 Concepts and Issues in Planning Practice

Fall. 4 credits.

P. Clavel.

A seminar for graduate students and others interested in an in-depth introduction to the main ideas and concepts that underlie the practice of city and regional planning. Weekly discussions will focus on selected articles and books. Interrelations between national, state, and local practices and policies, and developments in methodology, organization, and the political environment, will be explored.

[CRP 515 Gender Issues in Planning and Architecture (also CRP 415)]

Spring. 3 or 4 credits. Offered alternate years. Not offered 1993-94.

S. Christopherson.]

CRP 517 Industrial Restructuring: Implications for State and Local Policy (also CRP 417)

Fall. 4 credits.

S. Christopherson.

A basic introduction to new issues arising from the ways in which national and international economic shifts are affecting diverse United States localities. The course will focus on intraindustry restructuring, the

location of economic activities, and state and local economic policy. Cases will be drawn from a variety of industries and national situations, with specific application to New York and other locations in the Northeast.

CRP 520 Statistical and Mathematical Concepts for Planning

Fall. 3 or 4 credits.

Staff.

An introduction to statistical and mathematical concepts and methods of importance in planning and policy analysis. Topics will include matrix algebra, probability, sampling, estimation, and regression as well as the use of a microcomputer statistical package.

CRP 521 Mathematical Foundation for Planning Analysis.

Fall. 1 credit. S-U only. Meets for two hours, once each week, for approximately half the semester.

Staff.

Review of mathematical foundations for planning analysis. Topics include probability statistics, mathematical functions, and matrix algebra. Intended for students with prior course work as a refresher course in preparation for higher-level courses in planning analysis. Departmental permission required.

CRP 522 Introduction to Computers in Planning (also CRP 421)

Fall. 4 credits.

Staff.

Students learn how to use microcomputers and software packages in the planning and problem-solving processes. Included are word processing, spreadsheets, mapping, and other types of packages that are useful for other classes and for professional work in the field. (WordPerfect, Lotus 1-2-3, dBase, and MacGIS are examples of packages that have been taught in previous years.)

CRP 541 The Politics of Technical Decisions I (also Government 628 and Biology and Society 415)

Spring. 4 credits. Cosponsored by the Program on Science, Technology, and Society.

Staff.

Political aspects of decision making in technical areas. Examines the origins and characteristics of "technical politics," the role of experts in government, and the problem of expertise in a democratic system. Alternatives to current decision-making procedures are explored. Explores the politics of artifacts and cultures as well as government.

CRP 545 Introduction to Public Policy Analysis and Management

Spring. 3 credits. Prerequisite: CRP 520 or equivalent.

M. Drennan.

Introduction to systematic methods and processes for analyzing issues and problems of public policy and management. Roles of economic analysis and of analytic techniques in public sector decision making will be reviewed and their respective strengths and weaknesses evaluated. Applications to a variety of public sector problem areas will be explored.

CRP 546 Conflict Resolution in Community and Environment

Fall. 3 credits.

Staff.

This course will explore the theories and techniques of conflict resolution as they apply to community, environmental, and related public policy disputes. Analysis will

complement skill-building. Issues of power, participation, and strategy are central to our examinations of negotiation and mediation practice.

CRP 547 American Indians, Planners, and Public Policy (also CRP 363)

Spring. 3 credits. S-U grades optional.
S. Baugher.

Contemporary American Indian people, their reservations, and their cultural heritages are all affected, often adversely, by decisions made by public agencies and private enterprise. To benefit non-Indian cities and economic growth, reservations are sometimes flooded, polluted, strip-mined, and deforested. Archaeological sites and burial grounds are often destroyed. The central focus of the course is how to address urban and regional problems without imperiling the cultural survival of minorities.

[CRP 548 Social Policy and Social Welfare (also CRP 448)]

Spring. 4 credits. Not offered 1993-94.]

[CRP 549 Ethics and Practical Judgment in Planning]

Spring. 4 credits variable. Not offered 1993-94.]

CRP 550 Built Environment

Fall. 4 credits.

S. Christopherson.

This course is intended to introduce graduate-level students to the study of the built environment. This course will include: 1) theoretical approaches to the study of the built environment; 2) an introductory survey of the literature on built environment "elements," such as streets, grids, houses; 3) consideration of methods used to understand how people affect and are affected by their immediate environment; and 4) special topics, particularly, historic landscapes and historic preservation. This course will emphasize examples from the United States but some international comparisons will be drawn.

CRP 551 Environmental Law (also CRP 451)

Fall. 4 credits.

R. S. Booth.

An introduction to how the legal system handles environmental problems. Study of federal statutes such as the National Environmental Policy Act, the Clean Air Act, and the Clean Water Act, and of important judicial decisions that have been handed down under federal environmental statutes and regulations. Discussion of environmental law topics from a policy management perspective. This course is designed for undergraduate and graduate students interested in urban issues, planning, natural resources, government, environmental engineering, law, business, architecture, landscape architecture, etc. Course assignments for graduate students will differ in some aspects from those for undergraduates.

CRP 552 Urban Land-Use Planning I

Fall. 3 credits.

K. C. Parsons.

Surveys, analyses, and plan-making techniques for guiding physical development of urban areas; location requirements, space needs, and interrelations of land uses. Emphasis on residential, commercial, and industrial activities and community facilities; housing and neighborhood conditions. Lectures, seminars, and field exercises.

CRP 553 Urban Land-Use Planning II
Spring. 3 credits. Prerequisite: CRP 552 or permission of instructor.

K. C. Parsons.

In-depth consideration of special issues in urban land-use planning, such as industrial districts, large-scale integrated development, Planned Unit Development, public and institutional facilities, open space, land banking, central business districts, neighborhoods, energy impacts, transportation impacts, and others.

CRP 555 Urban Systems Studio (also Landscape Architecture 602)

Spring. 6 credits. Prerequisite: permission of instructor.

R. T. Trancik/K. C. Parsons.

Application of urban design and town planning techniques to specific contemporary problems of city environments. Issues of urbanism are investigated and applied to physical design interventions involving the street, square, block, garden, and park systems. Topics covered in the studio include urban land-use development, spatial systems and aesthetics, and public and private implementation of urban-design plans. This is a specially arranged collaborative studio with the Landscape Architecture Program.

CRP 556 Built-Environment Education Workshop

Fall. 4 credits

M. Tomlan.

Interdisciplinary teams of students from planning, architecture, landscape architecture, historic preservation, and other environmental design disciplines work in classrooms with schoolchildren and teachers to deepen their understanding of the built environment and to encourage their participation in the shaping of their own environment. Work in local schools is emphasized.

CRP 558 City and Regional Planning Workshop

Fall and spring. 4 credits. S-U only.

Staff.

Students work on urban issues, such as housing, traffic and parking, economic development, zoning, and related planning issues, with public or non-profit organizations in New York State. Projects are undertaken on a community-service basis for "clients" who specifically request planning assistance. Students work individually or in teams.

CRP 560 Documentation for Preservation (also Architecture 586)

Fall or spring. 3 credits.

M. A. Tomlan.

Methods of identifying, recording, collecting, processing, and analyzing information dealing with historic and architecturally significant structures, sites, and objects.

CRP 561 Historic Preservation Planning Workshop: Surveys and Analyses (also Architecture 588)

Fall or spring. 4 credits.

Staff.

Techniques for the preparation of surveys of historic structures and districts; identification of American architectural styles, focusing on upstate New York; and explorations of local historical resources, funding sources, and organizational structures. Lectures and training sessions. Emphasis on fieldwork with individuals and community organizations.

CRP 562 Perspectives on Preservation (also Architecture 585)

Fall. 3 credits.

J. Cody.

Introductory course for preservationists. A survey of the historical development of preservation activity in Europe and America leading to a contemporary comparative overview. Field trips to notable sites and districts.

CRP 563 Problems in Contemporary Preservation Practice (also Architecture 584)

Spring. Variable credit.

Staff.

A review and critique of ongoing preservation projects and an investigation of areas of expertise currently being developed. Presented by staff and guest lecturers.

CRP 564 Building Materials Conservation (also Architecture 587)

Spring. 3 credits. Open to juniors, seniors, and graduate students.

M. A. Tomlan.

A survey of the development of building materials in the United States, chiefly during the nineteenth and early twentieth centuries, and a review of the measures that might be taken to conserve them.

CRP 565 Fieldwork or Workshop in History and Preservation

Fall or spring. Variable credit.

M. A. Tomlan.

Work on applied problems in history and preservation planning in a field or laboratory setting or both.

CRP 567 Measured Drawing (also Architecture 583)

Fall. 3 credits. For undergraduate architecture students and graduate students in history and preservation. Prerequisite: permission of instructor.

M. A. Tomlan.

Combines study of architectural drawing as historical documents with exercises in preparing measured drawings of small buildings. Presents the basic techniques of studying, sketching, and measuring a building and the preparation of a finished drawing for publication.

CRP 569 Archaeology in Historic Preservation Planning

Spring. 3 credits.

S. Baugher.

Increasingly mandated by federal, state, and local legislation, archaeology plays an important role in planning and land-use decisions. Today, archaeology is integrated with the regulatory processes in historic preservation and environmental review, as well as continuing to influence the design and interpretation of national parks, historic battlefields and historic landmarks. Archaeological research reveals significant insights from the past regarding issues such as public landfill, waste disposal, soil erosion, water quality, and environmental change. Case studies from the United States, Canada, Great Britain, Italy, and Mexico highlight these issues. A graduate level seminar open to upper-level undergraduates.

[CRP 574 Legal Aspects of International Planning]

Fall. 3 credits. Offered alternate years. Not offered 1993-94.

Staff.

Legal systems vary substantially around the world. Planners operate within the parameters established by the legal system of the nation in which they are working. This course allows each student to examine the legal structure of a particular nation (chosen by the student) and to explore how that country's legal system shapes/controls decisions regarding the use, management, and development of land resources. The course emphasizes written and oral presentations.]

CRP 581 Principles of Spatial Design and Aesthetics (also CRP 481 and Landscape Architecture 480)

Fall. 3 credits. Course enrollment is restricted to planning and landscape architecture students unless special permission is granted by instructor.

R. T. Trancik.

A lecture course that introduces the spatial and visual design vocabularies of cities. Aesthetic principles and theories of design are investigated for different types of urban spaces drawn from a variety of international examples, historic and modern. Included in the course are design methods and applications in the contemporary urban context of Europe and North America.

CRP 582 Urban Housing: Sheltered vs. Unsheltered Society (also CRP 382)

Fall. 4 credits.

M. Wilder.

Homelessness is the latest in a continuing list of terms to describe unmet housing needs. To understand how and why such needs persist, even in good economic times, one must examine the nature of interactions between housing policies and housing market forces. This course examines the complex interaction of public and private actions in the development and redevelopment of urban housing. More specifically, the course seeks to investigate the many ways in which private and public policy decisions determine which groups in society will have access to housing. This course is appropriate for students with an interest in urban housing and a background in any of the following areas: urban economics, urban sociology, anthropology, history, or geography. The course will consist of lectures, a wide variety of readings, and guest speakers. Students will be evaluated on the basis of class discussions, two exams, a 15–20 page paper, and an oral presentation.

CRP 604 Urban Economics (also CRP 404)

Fall or spring. 4 credits. Prerequisite: basic economics.

M. Drennan.

Urban phenomena are analyzed from an economic point of view. Areas examined include economic aspects of urbanization processes and policies, determinants of urban growth and decline, urban land and housing markets, urban transportation, and urban public services. Some time will be spent in discussing problems of cities in developing countries.

CRP 613 The Political Economy of Women and Work (also Women's Studies 613)

Fall. 3 credits.

L. Beneria.

This course focuses on different approaches to the analysis of women's work in the household and the labor market from an economic and feminist perspective. Topics include household theory and the gender division of

labor in the home and the labor market; labor force participation; wage differentials, segregation, labor market segmentation, and discrimination; class, race, and gender issues; comparable worth and other labor market policies; gender and economic restructuring; family policies, demography, and social change. The empirical material in the course concentrates mostly but not exclusively on the United States.

CRP 614 Gender and International Development (also Woman's Studies 614)

Spring. 3 credits.

L. Beneria.

This course has four main objectives: 1) to analyze the location of women in development processes and the centrality of gender in each case; 2) to examine theoretical and conceptual frameworks for that analysis; 3) to reflect upon the linkages between the global economy and the gendered macro and micro processes of development; 4) to provide for a basis for research, practical action and policy formulation.

CRP 615 The Politics of Planning

Spring. 4 credits.

P. Clavel.

This graduate-level seminar explores the relationship between the persons who do planning and the community, political, and social movement context for planning. A range of political models is addressed, and literature in politics, sociology, and organizational theory is part of the coverage. Methodology of field research is part of the course, and students will be encouraged to design research that puts them in touch with actual cases, persons, and recent local histories.

CRP 616 Development and Change in the World Economy

Fall. 3 credits. Letter grade only.

L. Beneria.

This course concentrates on the current dynamics of national and international development, the globalization of national economies, and the forces and trends that are shaping this process. Beginning with an analysis of economic restructuring taking place since the late 1960s, the emphasis is on the factors affecting the new international division of labor and production, the labor market, consumption, trade and finance, and the distribution of resources. This includes the analysis of processes through which the current neoliberal model is being built, such as trade liberalization, labor market flexibilization, the erosion of nation states as economic units, and the formation of trade blocks and global institutions.

CRP 620 Planning Analysis

Spring. 4 credits.

B. G. Jones.

A survey of commonly used techniques for analyzing various aspects of subnational socioeconomic systems. Emphasizes planning applications.

CRP 630 Local Economic Development Policy—Seminar

Spring. 4 credits.

M. Wilder.

This course examines the impacts of urban economic restructuring on employment and income opportunities in U.S. cities. Particular attention is focused on the ways in which these effects vary by race and gender. Urban policy responses are evaluated in light of the

changing economic, demographic, and political character of U.S. metropolitan areas. Alternative policy strategies are examined which seek to redistribute economic resources. Course requirements include a midterm exam, a case study report, and an oral presentation.

CRP 631 Local Economic Policy—Field Workshop

Fall or spring. 4 credits.

P. Clavel.

A group policy analysis exercise in an upstate New York city. Students do a combination of data analysis; interviews with labor, business, and public leaders; and problem papers addressed to current issues presented by a client group. Individual work is synthesized into a comprehensive report at the end of the semester.

[CRP 642 Critical Theory and the Micro-politics of Practice]

Spring. 4 credits variable. Not offered 1993–94.]

CRP 652 The Urban Development Process

Fall. 2 credits. Enrollment limited.

K. C. Parsons.

Examination of the goals, strategies, methods, and achievements of major participants in the urban land and building market: landowners, speculators, real estate brokers, developers, bankers, lawyers, nonprofit builders, and government agencies. Primarily visiting speakers.

[CRP 653 Legal Aspects of Land-Use Planning]

Spring. 3 credits. Not offered 1993–94.

Staff.

Survey of leading cases and legal concepts in land-use planning, with particular attention to zoning, subdivision control, condemnation, and growth-control issues.]

CRP 659.02 Special Topic: Urban Public Finance

Spring. 3 credits. Prerequisite: prior exposure to microeconomics.

M. Drennan.

An overview of neoclassical public economics theory, particularly those aspects of the theory that are central to urban public finance. In part two, the unusual three-tiered fiscal system of the United States is described along with the evolving fiscal and economic role of large municipal governments. Part three of the course presents the public finance theory of taxation. Major taxes and other revenue sources utilized by large municipalities are described and analyzed. Part four is the heart of the matter, namely the measurement and analysis of the fiscal condition of cities.

CRP 661 Historic Preservation Planning Workshop: Plans and Programs

Fall or spring. 1–4 credits. Prerequisite: CRP 561.

Staff.

Preparation of elements of historic preservation plans, designs, legislation, and special studies. Individual or group projects are selected by students. Fieldwork is emphasized.

CRP 662 Seminar in American Urban History (also CRP 361)

Spring. 3 credits. Prerequisite: permission of instructor.

J. Cody.

Seminar in the historical evolution of the American city. Emphasis on factors in urban growth, the process of urbanization, urban reform movement, and intellectual and social responses to the city.

CRP 663 Historic Preservation Law
Spring. 3 credits. Offered alternate years.
Offered 1993.

Staff.

Law of historic district and landmark designation, tools for preservation (such as police power, taxation, eminent domain), and recent developments in state and federal historic preservation.

CRP 664 Economics and Financing of Neighborhood Conservation and Preservation

Fall. 3 credits.

B. G. Jones.

The economic and financial aspects of historic preservation and neighborhood conservation. Topics include public finance, selected issues in urban economics, real estate economics, and private financing of real estate projects.

CRP 665 Preservation Planning and Urban Change

Fall. 3 credits.

M. A. Tomlan.

An examination of fundamental planning concepts and issues as they relate to historic preservation. Neighborhood revitalization, federal housing programs, the role of public and private institutions, displacement, and other social issues are among the primary topics.

CRP 666 Pre-Industrial Cities and Towns of North American (also CRP 360)

Fall. 3 credits. S-U grades optional.

S. Baugher.

The pre-industrial approaches to the founding, design, and development of towns and cities in North America until 1815 demonstrate how various American Indian civilizations as well as diverse European cultures have each brought their perspectives to the organization of town and city living. American Indian case studies will include Mayan and Aztec cities, the city of Cahokia, and the towns of the Pueblos, Creeks, and Iroquois. The experiences of Europeans in North America will include Spanish, French, Dutch, and English. This course is a recommended complement to CRP 361.

CRP 670 Regional Planning and Development in Developing Nations

Spring. 4 credits. Prerequisite: second-year graduate standing.

W. W. Goldsmith.

Extensive case studies of development planning are analyzed. Focus is on the political economy of the process of regional development through urbanization and in particular on the concepts of equity and efficiency, external economies, export linkages, and internal self-sufficiency and integration. Resource development, national integration, human development, and migration problems are discussed.

CRP 671 Seminar in International Planning

Spring. 1 credit. S-U grades only.

W. W. Goldsmith.

The international planning lecture series sponsors lectures by visiting scholars or professionals in the field of international development and planning. The only formal

requirement for the course is a brief evaluation of the series at the end of the semester.

CRP 673 Economics of Regional Development

Fall or spring. 2 or 4 credits.

T. Vietorisz.

This course deals with the historical process of regional and metropolitan development, emphasizing Third World problems. While its basic approach is mode-of-production analysis, it also critically surveys location, comparative advantage, and feedback system theories. Development is interpreted as the penetration of the capitalist mode of production into precapitalist societies. Its features are analyzed both in terms of the historical stages of expanding capitalism (mercantile phase, imperialism, multinationals) and in terms of the pre-existing (feudal, Asiatic) precapitalist mode of production. Regional and urban development planning problems are discussed in the light of the contradictions of the above process, as well as in the context of newly emerging Third World socialist countries.

CRP 675 Seminar in Project Planning in Developing Countries

Spring. 4 credits.

D. Lewis.

An examination of the problems and issues involved in preparing project proposals for presentation to funding agencies. Topics include technical design, financial feasibility, social impact analysis, and policy relevance, as well as techniques for effective presentation of proposals. The course is organized as seminar-workshop providing both an analysis of the critical elements of effective proposals and an opportunity to use those elements in the preparation of proposals. A multidisciplinary perspective is emphasized.

CRP 689 Special Topics: Environmental Aspects of International Planning

Fall. 3 credits. S-U option.

P. Olpadwala.

What are the major environmental problems of the world today? How may we categorize them? What are their technological and social roots? Who is affected by them? What are the relative roles of rich and poor countries, and rich and poor peoples within countries, in creating the crises (to what extent are these problems of poverty and deprivation? of abundance and overconsumption?)? What is done to combat them and how effective is it/can it be? What are the possibilities for/limits of national planning? international cooperation?

CRP 703 Contemporary Theories of Regional Development

Fall or spring. 4 credits.

W. W. Goldsmith.

An advanced seminar, mainly for doctoral candidates, to review recent contributions to the literature. After a fast-paced review of basic material in political economy, students will read and present summaries of works by major contemporary theorists. A final paper is required.

CRP 711 Planning and Organization Theory

Fall. 4 credits.

P. Clavel.

Advanced seminar on theoretical models of planning, organization, and urban structure. The first part of the course, which may be taken separately for one credit, provides an

overview of administrative issues affecting planning. Next, attention is given to theories of organizational structure, growth, and change. Final sessions are devoted to the influence of urban and regional structures as context. Critical reading, short papers, and seminar discussion characterize the course.

CRP 720 Quantitative Techniques for Policy Analysis and Program Management

Fall. 4 credits.

D. Lewis.

Selected analytical techniques used in the planning and evaluation of public policy and public investments are examined. Topics include simulation modeling, benefit-cost and cost-effectiveness analysis (including capital budgeting), and optimization strategies.

CRP 730 Methods of Regional Science and Planning I

Fall. Variable 2 or 4 credits.

S. Saltzman.

An introduction to some of the major methods and models used in regional science and planning. This course is half of a two-semester sequence (see CRP 731). Either course may be taken first. Both courses will cover topics related to the structure and assumptions of the models, model development, and their applications in regional science and planning. Where appropriate, computer implementation will be considered. The spring semester emphasizes statistical and econometric models.

CRP 731 Methods of Regional Science and Planning II

Fall. Variable 2 or 4 credits.

S. Saltzman.

See CRP 730. The fall semester will provide an introduction to deterministic methods and models such as input/output models, social accounting models, and optimization models.

[CRP 772 Advanced Topics on International Development and Women]

Spring. 4 credits. Offered alternate years.

Not offered 1993-94.]

[CRP 776 Seminar in Urban Policy and Planning in Developing Countries]

Spring. 3 credits. Not offered 1993-94.

K. C. Parsons.

The national urban development policy and planning efforts of selected developing countries are examined in the context of urbanization theory and national spatial planning. Recent descriptive and critical literature is explored. Topics include secondary cities policies, national and urban transportation planning, city planning, sites and services project planning, housing, land policy, and urban development control systems.]

CRP 777 Theories of Development and Underdevelopment

Spring. 3 credits.

P. Olpadwala.

Various theories attempting to analyze and explain the phenomena of underdevelopment are examined. Although a range of thought and approaches is considered, the accent is on aspects of political economy revolving around concepts of class and exploitation. Topics include the transition to capitalism; dependent and uneven development; various issues of growth and fluctuation under contemporary capitalism, including crises;

rural and industrial development in less-developed countries and planning for development.

CRP 790 Professional Planning Colloquium I

Fall. 1 credit.

Staff.

Visiting lecturers treat problems and opportunities in the practice of planning. Topical focus to be announced. The only formal requirements for the course are attendance and a brief evaluation at the semester's end.

CRP 792 Master's Thesis, Project, or Research Paper

Fall or spring. 10 credits variable. S-U grades optional.

Hours to be arranged. Staff.

CRP 794 Planning Internships

Fall, spring, or summer. 1-12 credits.

Hours to be arranged. Staff.

Combines a professional planning internship in a metropolitan area with academic study to provide experience and understanding of the planner's role in formulating and implementing plans and policies. Salaried internships in federal or state agencies, legislative offices, and comparable settings include development of research, analysis, and other technical skills. Weekly seminars draw on student field experiences, assigned readings, and guest speakers to examine current issues of federal, urban, and regional policy from the perspective of planning practice.

CRP 795 Master's Thesis in Preservation Planning

Fall or spring. 1-6 credits.

Hours to be arranged. Staff.

CRP 796 Colloquium Journal Publication Workshop

Fall or spring. 2 credits. S-U grades only.

P. Clavel, J. Forester.

Individual and group projects culminating in the production of a professional journal.

CRP 797 Supervised Readings

Fall or spring. 4 variable credits. Limited to graduate students. Prerequisites: permission of instructor.

Staff.

CRP 798 Colloquium in Regional Science, Planning, and Policy Analysis

Fall or spring. 1 credit.

Staff.

Presentation and discussion of current research by faculty, visitors, and graduate students working on their dissertations. Typically, the colloquium will meet once a week during the semester.

CRP 800 Advanced Seminar in Urban and Regional Theory I

Fall. 3 credits. Prerequisite: CRP 500.

B. G. Jones.

The theory of urban spatial organization. Economic, technological, and social factors leading to urbanization and various kinds of spatial organizations are explored. Major theoretical contributions to the understanding of intraregional and intraurban distribution of population and economic activity are reviewed.

CRP 801 Advanced Seminar in Urban and Regional Theory II

Spring. 3 credits. Prerequisite: CRP 800.

B. G. Jones.

A continuation of City and Regional Planning 800, concentrating on recent developments.

CRP 810 Advanced Planning Theory

Fall. 3 credits. Prerequisite: CRP 500 or 710.

B. G. Jones.

A survey of the works of scholars who have contributed to current thinking about planning theory. Alternative assumptions concerning models of man and theoretical concepts concerning the nature of planning today are considered.

CRP 830 Seminar in Regional Sciences, Planning, and Policy Analysis

Fall or spring. Variable-4 credits.

S. Saltzman or W. Isard.

This seminar will provide an opportunity to review some of the literature and current research in regional science, planning, and policy analysis. Specific topics covered will vary each year. Empirical and analytical research will be emphasized. Students will be expected to prepare and present a research paper during the semester on some aspect of the topics under review.

CRP 890 Planning Research Seminar I

Fall or spring. 2 credits.

Staff.

Intended for doctoral candidates in city and regional planning; other students welcome. Presentation and discussion of current problem areas and research by advanced doctoral students, faculty members, and visitors.

CRP 892 Doctoral Dissertation

Fall or spring. 1-2 credits.

Hours to be arranged. Staff.

Special Topic Courses

Fall or spring. Variable credit.

Hours to be arranged. Staff.

Typical topics are:

CRP 609 Urban and Regional Theory

CRP 619 Planning Theory and Politics

CRP 629 Quantitative Methods and Analysis

CRP 639 Regional Development Planning

CRP 649 Social-Policy Planning

CRP 659 Urban Development Planning

CRP 669 History and Preservation

CRP 679 Planning and Developing Regions

CRP 689 Environmental Planning

CRP 699 Regional Science

CRP 719 Planning Theory and Politics

LANDSCAPE ARCHITECTURE

The Landscape Architecture Program at Cornell is jointly sponsored by the College of Agriculture and Life Sciences (in association with the Department of Floriculture and Ornamental Horticulture) and the College of Architecture, Art, and Planning.

The Program

Program faculty: M. I. Adleman, T. H. Johnson, D. W. Krall, A. S. Lieberman, L. Mirin, R. T. Trancik, P. J. Trowbridge.

The Landscape Architecture Program offers three professional degree alternatives: a two-year graduate curriculum directed to those who have undergraduate degrees in landscape architecture or architecture, a three-year graduate curriculum directed to those who have undergraduate degrees in other fields, and a four-year undergraduate curriculum. Graduate studies in landscape architecture are administered through the Graduate School and lead to a Master of Landscape Architecture degree. Undergraduate studies in landscape architecture are administered through the College of Agriculture and Life Sciences and lead to a Bachelor of Science degree.

Course Information

***LA 141 Freehand Drawing**

Fall. 3 credits.

P. Horrigan.

***LA 142 Introduction to Landscape Architecture**

Spring. 4 credits.

D. W. Krall.

***LA 201 Design, Composition, and Theory**

Fall. 6 credits.

M. I. Adleman.

***LA 202 Design, Composition, and Theory**

Spring. 6 credits.

T. H. Johnson.

***LA 301 Site Design and Detailing**

Fall. 6 credits.

P. Horrigan.

***LA 302 Site Design and Detailing**

Spring. 6 credits. Prerequisite: LA 301 with a grade of C or better. Cost of supplies, about \$200; expenses for field trip, \$200.

Lecs, M W F 1:25; studios, M W F 2:30-4:25. L. Mirin.

***LA 310 Site Engineering for Landscape Architects**

Fall. 4 credits.

M. I. Adleman.

***LA 312 Site Construction**

Spring. 4 credits.

P. J. Trowbridge.

***LA 401 Urban Design and Planning**

Fall. 6 credits.

R. T. Trancik.

***LA 402 Advanced Project Studio**

Spring. 6 credits.

M. I. Adleman.

***LA 410 AutoCAD**

Fall or spring. 1-5 credits; may be repeated for credit. S-U grades optional

P. J. Trowbridge.

***LA 412 Professional Practice**

Spring. 1 credit.

K. Wolf.

***LA 480 Principles of Spatial Design and Aesthetics (also CRP 481/581)**

Fall. 3 credits.

R. T. Trancik.

***LA 490 Special Topics in Landscape Architecture**

Fall or spring. 1-3 credits.

Staff.

***LA 491 Design and Plant Establishment (also HORT 491)**

Fall. 3 credits.

P. J. Trowbridge/N. Bassuk.

***LA 492 Undergraduate Seminar**

Spring. 2 credits.

M. I. Adleman.

LANAR 497 Independent Study in Landscape Architecture

Fall or spring. 1-5 credits; may be repeated for credit. S-U grades optional. Staff.

Work on special topics by individuals or small groups.

***LA 498 Undergraduate Teaching**

Fall or spring. 1-3 credits.

Staff.

LANAR 501 Design, Composition, and Theory

Fall. 6 credits. Lab fee, \$20; cost of basic drafting equipment and supplies, about \$200.

Lecs, M W F 1:25; studios, M W F 2:30-4:25. L. K. Mirin.

Basic design principles and processes applied to the design of the outdoor environment. Studio projects focus on the analysis, organization, and form of outdoor space through the use of three-dimensional components including structures, vegetation, and earthform.

***LA 502 Design, Composition, and Theory**

Spring. 6 credits.

P. Horrigan

***LA 505 Graphic Communication I**

Fall. 3 credits.

T. H. Johnson.

***LA 506 Graphic Communication II**

Spring. 3 credits.

P. Horrigan.

LANAR 520 Contemporary Issues in Landscape Architecture

Fall. 2 credits. S-U grades only.

Lec, F 11:15-1:10. L. Mirin.

Presentations on topics that are current and significant to the environmental design and planning fields. Issues are discussed from a landscape architecture point of view by practitioners and researchers representing a range of professions.

LANAR 521 History of American Landscape Architecture

Fall. 3 credits.

Lecs, T R 11:15; discs to be arranged. L. Mirin.

Landscape architecture in the United States from Jefferson to the present is examined as a unique expression of the American experience. Influences exerted by the physical landscape, the frontier and utopian spirit, and the cultural assumptions of democracy and capitalism are traced as they affect the forms of urban parks, private and corporate estates, public housing, transportation planning, national parks, and other open-space designs.

LANAR 522 History of European Landscape Architecture

Spring. 3 credits.

Lecs, T R 11:15; discs to be arranged. L. Mirin.

A survey from classical times to the present, emphasizing design principles and techniques that have established the landscape architecture tradition in Europe. Particular reference

is made to the manner in which environments such as gardens, streets, plazas, parks, and new towns reflect in their built form a range of response to demands of culture, economics, technology, security, the law, and ecology.

***LA 590 Graduate Seminar in Landscape Architecture**

Spring. 3 credits.

T. H. Johnson.

***LA 601 Project Planning and Application**

Fall. 6 credits. Limited to graduate students.

Cost of supplies, about \$200; expenses for field trip, \$200.

Lecs, M W F 1:25; studios, M W F 2:30-4:25. Required field trip.

T. H. Johnson.

***LA 602 Urban Design and Planning (also CRP 555)**

Spring. 6 credits.

R. T. Trancik and staff.

***LA 610 Site Engineering for Landscape Architects**

Fall. 4 credits.

M. I. Adleman.

***LA 612 Site Construction**

Spring. 4 credits.

P. J. Trowbridge.

***LA 680 Graduate Seminar in Landscape Architecture**

Fall or spring. 1-3 credits.

Staff.

***LA 701 Natural Systems and Planting Design Studio**

Fall. 6 credits.

P. J. Trowbridge/D. W. Krall.

LANAR 800 Master's Thesis in Landscape Architecture

Fall or spring. 9 credits.

Hours to be arranged. Staff.

Independent research under faculty guidance, leading to the development of a comprehensive and defensible design or study related to the field of landscape architecture. Work is expected to be completed in the final semester of residency.

*Offered through the College of Agriculture and Life Sciences.

FACULTY ROSTER

Baughner, Sherene, Ph.D., SUNY at Stony Brook, Visiting Prof., City and Regional Planning
Beneria, Lourdes, Ph.D., Columbia U. Prof., City and Regional Planning
Bertoia, Roberto, M.F.A., Southern Illinois U. Assoc. Prof., Art
Blum, Zevi, B.Arch., Cornell U. Assoc. Prof., Art
Booth, Richard S., J.D., George Washington U. Assoc. Prof., City and Regional Planning
Bowman, Stanley J., M.F.A., U. of New Mexico. Prof., Art
Christopherson, Susan M., Ph.D., U. of California at Berkeley. Asst. Prof., City and Regional Planning
Clavel, Pierre, Ph.D., Cornell U. Prof., City and Regional Planning
Cody, Jeffrey, Ph.D., Cornell U., Visiting Assistant Professor, City and Regional Planning

Colby, Victor E., M.F.A., Cornell U. Prof. Emeritus, Art
Crump, Ralph W., B.Arch., Cornell U. Prof. Emeritus, Architecture
Cruvellier, Mark R., M. Eng., Ph.D., McGill U. (Canada). Asst. Prof., Architecture
Czamanski, Stan, Ph.D., U. of Pennsylvania. Prof. Emeritus, City and Regional Planning
Daly, Norman, M.A., Ohio State U. Prof. Emeritus, Art
Drennan, Matthew P., Ph.D., New York University. Prof., City and Regional Planning
Evet, Kenneth W., M.A., Colorado Coll. Prof. Emeritus, Art
Forester, John, Ph.D., U. of California at Berkeley. Prof., City and Regional Planning
Goehner, Werner H., Dipl. Ing., Technical U. Karlsruhe (Germany), M.Arch., Cornell U. Assoc. Prof., Architecture
Goldsmith, William W., Ph.D., Cornell U. Prof., City and Regional Planning
Greenberg, Donald P., Ph.D., Cornell U. Prof., Architecture
Hall, Roy A., M.S., Cornell U., Asst. Prof., Architecture
Hascup, George E., B.Arch., U. of California at Berkeley. Assoc. Prof., Architecture
Hodgden, Lee F., M.Arch., Massachusetts Inst. of Technology. Assoc. Prof., Architecture
Hubbell, Kent L., M.Arch., Cornell U. Prof., Architecture
Isard, Walter, Ph.D., Harvard U. Prof., City and Regional Planning
Jarzombek, Mark, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Architecture
Jones, Barclay G., Ph.D., U. of North Carolina. Prof., City and Regional Planning
Jullian de la Fuente, Guillaume, M.S. Arch., U. Catalica de Chile. Assoc. Prof., Architecture
Kelly, Burnham, M.C.P., Massachusetts Inst. of Technology. Prof. Emeritus, City and Regional Planning
Kira, Alexander, M.R.P., Cornell U. Prof., Architecture
Kord, Victor, M.F.A., Yale U. Prof., Art
Lewis, David B., Ph.D., Cornell U. Assoc. Prof., City and Regional Planning
Locey, Jean N., M.F.A., Ohio U. Assoc. Prof., Art
MacDougall, Bonnie G., Ph.D., Cornell U. Assoc. Prof., Architecture
Mackenzie, Archie B., M.Arch., U. of California at Berkeley. Assoc. Prof., Architecture
McMinn, William G., M. Arch., U. of Texas at Austin. Dean, Prof., Architecture
Meyer, Elisabeth H., M.F.A., U. of Texas. Assoc. Prof., Art
Meyers, Victoria L., M. Arch., Harvard U. Asst. Prof., Architecture
Mikus, Eleanore, M.A., U. of Denver. Prof., Art
Miller, John C., M.Arch., Cornell U. Assoc. Prof., Architecture
Mirin, Leonard J., M.L.A., U. of Michigan. Assoc. Prof., Landscape Architecture
Mulcahy, Vincent J., M.Arch., Harvard U. Assoc. Prof., Architecture
Ochshorn, Jonathan, M. Urban Design, City College of New York, Asst. Prof., Architecture
Olpadwala, Porus, Ph.D., Cornell U. Assoc. Prof., City and Regional Planning
Otto, Christian F., Ph.D., Columbia U. Prof., Architecture
Ovaska, Arthur, M.Arch., Cornell U. Asst. Prof., Architecture
Page, Gregory, M.F.A., U. of Wisconsin. Assoc. Prof., Art

- Parsons, Kermit C., M.R.P., Cornell U. Prof.,
City and Regional Planning
- Pearman, Charles W., B.Arch., U. of Michigan.
Prof., Architecture
- Pendleton, Ann M., M. Arch., Princeton U.,
Asst. Prof., Architecture
- Perlus, Barry A., M.F.A., Ohio U., Assoc. Prof.,
Art
- Poleskie, Stephen F., B.S., Wilkes Coll. Prof.,
Art
- Reps, John W., M.R.P., Cornell U. Prof.
Emeritus, City and Regional Planning
- Richardson, Henry W., M.R.P., Cornell U.
Assoc. Prof., Architecture
- Rowe, Colin F., M.A., U. of London (England).
A. D. White Prof. Emeritus
- Saltzman, Sid, Ph.D., Cornell U. Prof., City
and Regional Planning
- Saul, Francis W., M.S., Harvard U. Assoc. Prof.
Emeritus, Architecture
- Schack, Mario L., M.Arch., Harvard U. Prof.,
Architecture
- Shaw, John P., M.Arch., Massachusetts Inst. of
Technology. Prof., Architecture
- Simitch, Andrea, B.Arch., Cornell U. Asst.
Prof., Architecture
- Singer, Arnold. Prof. Emeritus, Art
- Squier, Jack L., M.F.A., Cornell U. Prof., Art
- Stein, Stuart W., M.C.P., Massachusetts Inst. of
Technology. Prof. Emeritus, City and
Regional Planning
- Taft, W. Stanley, M.F.A., California College of
Arts and Crafts, Asst. Prof., Art
- Thiratrakoolchai, Sombat, D. Arch., U. of
Michigan. Assoc. Prof., Architecture
- Tomlan, Michael A., Ph.D, Cornell U. Asst.
Prof., City and Regional Planning
- Trancik, Roger T., M.L.A.-U.D., Harvard U.
Prof., Landscape Architecture/City and
Regional Planning
- Ungers, O. Mathias, Diploma, Technical U.
Karlsruhe (Germany). Prof. Emeritus,
Architecture
- Vietorisz, Thomas, Ph.D., Massachusetts Inst.
of Technology. Adjunct Prof., City and
Regional Planning
- WalkingStick, Kay, M.F.A., Pratt Institute. Asst.
Prof., Art
- Warke, Val K., M.Arch., Harvard U. Assoc.
Prof., Architecture
- Wells, Jerry A., B.Arch., U. of Texas.
Nathaniel and Margaret Owings Distin-
guished Alumni Professor of Architecture,
Architecture
- White, Gail S., M.F.A., Boston Museum School
and Tufts U. Asst. Prof., Art
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